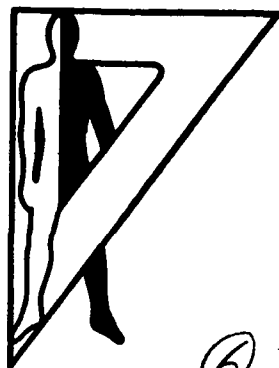


AD A056799



12

AD

LEVEL #

6 HUMAN PERFORMANCE: SEX DIFFERENCES  
AND THE INFLUENCE OF THE MENSTRUAL CYCLE  
(A Selected Bibliography)

AD No. 1  
DDC FILE COPY

10

Patricia A. Billingsley  
Gerald A. Hudgens

9 Rept. for 193p - 1977

11

May 1978

12

71 p.

Approved for public release;  
distribution unlimited.

DDC  
RECEIVED  
JUL 31 1978  
B

U. S. ARMY/HUMAN ENGINEERING LABORATORY

Aberdeen Proving Ground, Maryland

172 850  
78 07 19 006

mt

**Destroy this report when no longer needed.  
Do not return it to the originator.**

**The findings in this report are not to be construed as an official Department  
of the Army position unless so designated by other authorized documents.**

**Use of trade names in this report does not constitute an official endorsement  
or approval of the use of such commercial products.**

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) HUMAN PERFORMANCE: SEX DIFFERENCES AND THE INFLUENCE OF THE MENSTRUAL CYCLE (A Selected Bibliography)		5. TYPE OF REPORT & PERIOD COVERED
7. AUTHOR(s) Patricia A. Billingsley Gerald A. Hudgens		6. PERFORMING ORG. REPORT NUMBER
9. PERFORMING ORGANIZATION NAME AND ADDRESS US Army Human Engineering Laboratory Aberdeen Proving Ground, MD 21005		8. CONTRACT OR GRANT NUMBER(s)
11. CONTROLLING OFFICE NAME AND ADDRESS		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
		12. REPORT DATE May 1978
		13. NUMBER OF PAGES 71
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		15. SECURITY CLASS. (of this report) Unclassified
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report)  Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Human Performance Sex Differences Menstrual Cycle		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) The bibliography is a compilation of 640 references dealing with, or related to, the effects of sex differences and the menstrual cycle on human performance. The material is organized into six categories: An Overview of Sex Differences, Physiological Sex Differences, Sex Differences in Cognitive and Motor Skills, Sex Differences in Personality, Women in Non-Traditional Occupations, and Psychophysiology of the Menstrual Cycle. An index of first authors is included. The time period covered is roughly from the 1930's through mid-1977.		

DD FORM 1 JAN 75 1473

EDITION OF 1 NOV 68 IS OBSOLETE

78

07

19

006

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

**HUMAN PERFORMANCE: SEX DIFFERENCES  
AND THE INFLUENCE OF THE MENSTRUAL CYCLE  
(A Selected Bibliography)**

Patricia A. Billingsley  
Gerald A. Hudgens

May 1978

ACCESSION for		
NTIS	Write Section	<input checked="" type="checkbox"/>
DDC	Diff Section	<input type="checkbox"/>
UNANNOUNCED		<input type="checkbox"/>
JUSTIFIED		
BY		
DISTRIBUTION/AVAILABILITY CODES		
Dist.	AVAIL. and	SPECIAL
A		

APPROVED

*John D. Weisz*  
JOHN D. WEISZ  
Director

US Army Human Engineering Laboratory

**US ARMY HUMAN ENGINEERING LABORATORY  
Aberdeen Proving Ground, Maryland 21005**

Approved for public release;  
distribution unlimited.

## CONTENTS

INTRODUCTION . . . . .	3
I. SEX DIFFERENCES: OVERVIEW . . . . .	5
A. General Background . . . . .	6
B. Sex As a Research Variable/Methodology . . . . .	7
II. PHYSIOLOGICAL SEX DIFFERENCES . . . . .	9
A. General Background in Sensation and Perception . . . . .	10
B. Vision/Color Perception . . . . .	10
C. Audition . . . . .	12
D. Olfaction . . . . .	12
E. Taste . . . . .	13
F. Thermal/Tactile Sensitivity . . . . .	13
G. Pain . . . . .	14
H. Electroencephalography/Evoked Potentials . . . . .	15
I. Galvanic Skin Response . . . . .	15
J. Brain Laterality/Hemispheric Specialization . . . . .	16
K. Response to Stress . . . . .	18
III. SEX DIFFERENCES IN COGNITIVE AND MOTOR ABILITIES . . . . .	19
A. Motor Skills/Motor Learning . . . . .	20
B. Strength/Anthropometry . . . . .	22
C. Vigilance/Attention . . . . .	23
D. Reaction Time . . . . .	24
E. Time Estimation . . . . .	24
F. Cognitive Skills/Intelligence . . . . .	25
G. Memory . . . . .	26
H. Problem Solving/Decision Making . . . . .	26
I. Color/Word Interference . . . . .	27
J. Verbal/Spatial Skills, Imagery . . . . .	28
K. Afterimages . . . . .	29
L. Field Dependence . . . . .	29
M. Biological Bases of Sex Differences in Cognitive Abilities . . . . .	30
IV. SEX DIFFERENCES IN PERSONALITY . . . . .	33
A. Emotionality/Adaptive Styles . . . . .	34
B. Achievement Motivation/Competition . . . . .	34
C. Sex Roles/Socialization . . . . .	35
D. Aggression/Personal Space . . . . .	36
V. WOMEN IN NON-TRADITIONAL OCCUPATIONS . . . . .	37
A. General Background: Psychology of Women . . . . .	38
B. Women and Work . . . . .	38
C. Women and Defense . . . . .	39
D. Women and Sports/Strength . . . . .	40

VI. PSYCHOPHYSIOLOGY OF THE MENSTRUAL CYCLE . . . . .	43
A. General Background . . . . .	44
B. Hormonal/Other Systemic Correlates . . . . .	44
C. Cycle Length/Regularity . . . . .	47
D. Menstrual Synchrony . . . . .	48
E. Cytology/Determination of Ovulation . . . . .	48
F. Symptomology and Distress . . . . .	49
G. The Pre-Menstrual Syndrome . . . . .	50
H. Effects on Sensation and Perception . . . . .	51
I. Effects on EEG's/Evoked Potentials . . . . .	53
J. Effects on Psychomotor Performance/Cognition . . . . .	54
K. Effects on Mood/Personality . . . . .	55
L. Effects on Behavior . . . . .	56
M. Correlates of Oral Contraceptive Use . . . . .	58
N. Social Taboos . . . . .	59
O. Menopause . . . . .	60
INDEX OF FIRST AUTHORS . . . . .	61

# **HUMAN PERFORMANCE: SEX DIFFERENCES AND THE INFLUENCE OF THE MENSTRUAL CYCLE (A Selected Bibliography)**

## **INTRODUCTION**

With the recent increase in the number of women in both the civilian work force and the military services, the study of female capabilities is assuming great importance. However, an examination of articles published in psychology journals has revealed that the capabilities of women have traditionally received relatively little attention in studies involving performance measures. The increasing need for research in this area has not led to a corresponding increase in the amount of relevant material available in the literature (e.g., Hudgens and Billingsley, 1978). Furthermore, it is difficult to make use of the information that is already available on the relative capabilities of men and women, because there is no single reference source which is primarily concerned with sex differences in performance abilities.

This bibliography is intended to fill the corresponding gap in the literature with a comprehensive and unbiased reference source for persons seeking information concerning the effects of sex differences and the menstrual cycle on human performance. It should be especially useful to researchers as a starting point when they enter the field, and to persons, such as human factors engineers, who need the information contained in the cited references for application to specific problems.

The time period covered by the bibliography is from the 1930's, when the area of sex differences received increased attention due to an influx of women into the civilian work force, through mid-1977, at which point this bibliography was prepared for publication. Every attempt has been made to ensure that this bibliography is as complete as possible within the limits of available resources. One exception exists: since the primary focus of the bibliography is on performance, the section dealing with sex differences and personality variables was given a low priority in the search for relevant references. Therefore, that section does not reflect the full range of available material. Periodic supplements are planned to update and expand this initial collection of references. Persons using this document are encouraged to notify the authors of relevant works that have been overlooked for the time period covered by this bibliography.

The bibliography is organized into six sections: I. An Overview of the Field of Sex Differences; II. Physiological Sex Differences; III. Sex Differences in Cognitive and Motor Skills; IV. Sex Differences in Personality; V. Women in Non-Traditional Occupations; and VI. Psychophysiology of the Menstrual Cycle. The Table of Contents lists the various subsections under each main section. Although many of the references could be legitimately included under several headings, each is listed only once according to its primary topic. An index of first authors is included at the end for the user's convenience.

The authors wish to express their sincere gratitude to Violet Confer, Doris Eanes, Karen Wolter, and Joyce Watlington for their dedicated and skilled technical assistance.

## I. SEX DIFFERENCES: OVERVIEW



## A. GENERAL BACKGROUND

1. Allen, C. N. Recent studies in sex differences. Psychological Bulletin, 1930, 27, 394-407.
2. Beach, F. A. (Ed.) Sex and behaviour. New York: John Wiley & Sons, 1965.
3. Beach, F. A. (Ed.) Human sexuality in four perspectives. Baltimore, MD: The Johns Hopkins University Press, 1977.
4. Clark, W. W. Boys and girls - Are there significant ability and achievement differences? Phi Delta Kappan, 1959, 41, 73-76.
5. Colquhoun, W. P. (Ed.) Biological rhythms and human performance. New York: Academic Press, 1971.
6. Friedman, R. C., Richart, R. M., & Vande Wiele, R. L. Sex differences in behavior. New York: John Wiley & Sons, 1974.
7. Garai, J. E., & Scheinfeld, A. Sex differences in mental and behavioral traits. Genetic Psychology Monographs, 1968, 77, 169-299.
8. Harris, D. V. Physical sex differences: A matter of degree. Counseling Psychologist, 1976, 6, 9-11.
9. Harris, G. W. Sex hormones, brain development, and brain function. Endocrinology, 1964, 75, 627-648.
10. Hersey, R. B. Emotional cycles in man. Journal of Mental Science, 1931, 77, 151-169.
11. Hutt, C. Males and females. Middlesex, England: Penguin Books, 1972.
12. Lang, T. The differences between a man and a woman. New York: John Day, 1971.
13. Lloyd, B., & Archer, J. (Eds.) Exploring sex differences. London, England: Academic Press, 1976.
14. Maccoby, E. E. (Ed.) The development of sex differences. Stanford, CA: Stanford University Press, 1974.
15. Maccoby, E. E., & Jacklin, C. N. The psychology of sex differences. Stanford, CA: Stanford University Press, 1974.
16. Michael, R. P. (Ed.) Endocrinology and human behaviour. London, England: Oxford University Press, 1968.
17. Mussen, P. H. (Ed.) Carmichael's manual of child psychology (2nd & 3rd editions). New York: John Wiley & Sons, 1954 and 1970.
18. Ounsted, C., & Taylor, D. C. (Eds.) Gender differences: Their ontogeny and significance. London, England: Churchill Livingstone, 1972.

19. Sachar, E. J. (Ed.) Topics in psychoendocrinology, New York: Grune and Stratton, 1975.
20. Woolley, H. T. Psychological literature: A review of the recent literature on the psychology of sex. Psychological Bulletin, 1910, 7, 335-342.

#### B. SEX AS A RESEARCH VARIABLE/METHODOLOGY

1. Carlson, E., & Carlson, R. Male and female subjects in personality research. Journal of Abnormal and Social Psychology, 1960, 61, 482-483.
2. Dan, A. J., & Beekman, S. Male versus female representation in psychological research. American Psychologist, 1972, 27, 1078.
3. Favreau, O. E. Sex bias in psychological research. Canadian Psychological Review, Psychologie Canadienne, 1977, 18, 56-65.
4. Harris, S. L. Influence of subject and experimenter sex in psychological research. Journal of Consulting and Clinical Psychology, 1971, 37, 291-294.
5. Harris, S. L. Who studies sex differences? American Psychologist, 1972, 27, 1077-1078.
6. Harrison, J. B. A critical evaluation of research on masculinity/femininity and a proposal for an alternative paradigm for research on psychological differences and similarities between the sexes (Doctoral dissertation, New York University, 1975). Dissertation Abstracts International, 1975, 36, 1903B. (University Microfilms No. 75-22890)
7. Hudgens, G. A., & Billingsley, P. A. Sex: The missing variable in human factors research. Human Factors, 1978, 20, 245-249.
8. Peay, M. Y. Use of the sex variable in social psychological research. Australian Psychologist, 1976, 11, 139-146.
9. Reardon, P., & Prescott, S. Reexamination of male versus female representation in psychological research. JSAS Catalog of Selected Documents in Psychology, 1976, 6, 38. (Manuscript No. 1236)
10. Satinder, K. P. A note of caution in conducting research involving sex differences in behavior. In the Organizing Committee of the XXth International Congress of Psychology (Eds.), Abstract Guide, XXth International Congress of Psychology, Tokyo, Japan: N. Sasaki Co., 1972.
11. Schwabacher, S. Male vs. female representation in psychological research: An examination of the Journal of Personality and Social Psychology, 1970, 1971. JSAS Catalog of Selected Documents in Psychology, 1972, 2, 20. (Manuscript No. 82)

## II. PHYSIOLOGICAL SEX DIFFERENCES

REPRODUCTION PAGE BLANK-NOT FILMED

## A. GENERAL BACKGROUND IN SENSATION AND PERCEPTION

1. Baker, M. A. The study of sex differences in sensation and perception: The need, the findings, and the value for research in the social sciences. JSAS Catalog of Selected Documents in Psychology, 1975, 5, 319. (Manuscript No. 1062)
2. Bieri, J., Bradburn, W. M., & Galinsky, M. D. Sex differences in perceptual behavior. Journal of Personality, 1958, 26, 1-12.
3. Koelega, H. S., & Koster, E. P. [Sex differences in sensory sensitivity.] (Leo Kanner Associates, Trans.) Nederlands Tijdschrift voor de Psychologie en haar Grensge bienden, 1973, 28, 293-309.
4. Silverman, J., Buchsbaum, M., & Henkin, R. Stimulus sensitivity and stimulus intensity control. Perceptual and Motor Skills, 1969, 28, 71-78.
5. Silverman, J., Buchsbaum, M., & Stierlin, H. Sex differences in perceptual differentiation and stimulus intensity control. Journal of Personality and Social Psychology, 1973, 25, 309-318.
6. Walters, C., Parsons, O. A., & Shurley, J. T. Male-female differences in underwater sensory isolation. British Journal of Psychiatry, 1964, 110, 290-295.
7. Walters, C., Shurley, J. T., & Parsons, O. A. Differences in male and female responses to underwater sensory deprivation: An exploratory study. Journal of Nervous and Mental Disease, 1962, 135, 302-310.

## B. VISION/COLOR PERCEPTION

1. Bryden, M. P. Perceptual asymmetry in vision: Relation to handedness, eyedness, and speech lateralization. Cortex, 1973, 9, 418-432.
2. Burg, A. Visual acuity as measured by dynamic and static tests: A comparative evaluation. Journal of Applied Psychology, 1966, 50, 460-466.
3. Burg, A. Vision and driving: A report on research. Human Factors, 1971, 13, 79-87.
4. Burg, A., & Hulbert, S. Dynamic visual acuity as related to age, sex, and static acuity. Journal of Applied Psychology, 1961, 45, 111-116.
5. Clark, W. C. The psyche in psychophysics: A sensory-decision theory analysis of the effect of instructions on flicker sensitivity and response bias. Psychological Bulletin, 1966, 65, 358-366.
6. Eysenck, H. J. A critical and experimental study of color preferences. American Journal of Psychology, 1941, 54, 385-394.
7. Götz, K. O., & Götz, K. Color preferences of art students: Surface colors: I. Perceptual and Motor Skills, 1974, 39, 1103-1109.
8. Harley, J. P., Kalish, D. I., & Silverman, A. J. Eye movements and sex differences in field articulation. Perceptual and Motor Skills, 1974, 38, 615-622.

9. Krishna, K. P. Colour preference as a function of age and sex. Journal of the Indian Academy of Applied Psychology, 1972, 9, 10-13.
10. Kuechenmeister, C. A., Linton, P. H., Mueller, T. V., & White, H. B. Eye tracking in relation to age, sex, and illness. Archives of General Psychiatry, 1977, 34, 578-579.
11. Lichtenstein, J. H., & Saucer, R. T. Visual dependency in the erect and supine positions. Journal of Applied Psychology, 1974, 59, 529-531.
12. McGuinness, D. Away from a unisex psychology: Individual differences in visual sensory and perceptual processes. Perception, 1976, 5, 279-294.
13. Misiak, H. Age and sex differences in critical flicker frequency. Journal of Experimental Psychology, 1947, 37, 318-332.
14. Rayner, K., & McConkie, G. W. What guides a reader's eye movements? Vision Research, 1976, 16, 829-837.
15. Reynolds, R. E., White, R. M., Jr., & Hilgendorf, R. L. Detection and recognition of colored signal lights. Human Factors, 1972, 14, 227-236.
16. Roberts, J. Binocular visual acuity of adults: United States, 1960-1962. Washington, DC: U.S. Department of Health, Education and Welfare, Public Health Service, 1964.
17. Ronchi, L., & Ercoles, A. M. Electroretinographic responses, age and sex, and recording resistance. Atti Ronchi, 1966, 21, 185-193.
18. Staples, R. The responses of infants to color. Journal of Experimental Psychology, 1932, 15, 119-141.
19. Weltman, G. Perceptual narrowing in novice divers. Human Factors, 1966, 8, 499-506.
20. Williams, J. M., & Thirer, J. Vertical and horizontal peripheral vision in male and female athletes and nonathletes. Research Quarterly, 1975, 46, 200-205.
21. Wolf, V. C. Age and sex differences as measured by a new non-verbal visual perceptual test. Psychonomic Science, 1971, 25, 85-87.

### C. AUDITION

1. Corso, J. F. Age and sex differences in pure-tone thresholds. Journal of the Acoustical Society of America, 1959, 31, 498-507.
2. Elliott, C. D. Noise tolerance and extraversion in children. British Journal of Psychology, 1971, 62, 375-380.
3. Fletcher, J. F., & Yates, A. J. The repetition of single speech sounds under delayed auditory feedback. British Journal of Psychology, 1971, 62, 73-79.
4. Hull, F. M., Mielke, P. W., Timmons, R. J., & Willeford, J. A. The national speech and hearing survey: Preliminary results. ASHA Reports, 1971, 3, 501-509.
5. Kopra, L. L., & Blosser, D. Effects of method of measurement on most comfortable loudness level for speech. Journal of Speech and Hearing Research, 1968, 11, 497-508.
6. Kumar, P., & Mathur, C. N. Sex and noise distractibility. Indian Journal of Applied Psychology, 1968, 6, 13-14.
7. McGuinness, D. Hearing: Individual differences in perceiving. Perception, 1972, 1, 465-473.
8. McGuinness, D. Equating individual differences for auditory input. Psychophysiology, 1974, 11, 113-120.
9. Timmons, B. A. Sex as a factor influencing sensitivity to delayed auditory feedback. Perceptual and Motor Skills, 1971, 32, 824-826.
10. Zaner, E. R., Levee, R. F., & Guinta, R. R. The development of auditory perceptual skills as a function of maturation: A pilot study. Journal of Auditory Research, 1968, 8, 313-322.

### D. OLFACTION

1. Koelega, H. S. Extraversion, sex, arousal and olfactory sensitivity. Acta Psychologica, Amsterdam, 1970, 34, 51-66.
2. Koelega, H. S., & Koster, E. P. Some experiments on sex differences in odor perception. Annals of the New York Academy of Sciences, 1974, 237, 234-246.
3. LeMagnen, J. [Sensory physiology - New data on the exaltolide phenomenon.] (SCITRAN, trans.) Comptes Rendus de l'Académie des Sciences, 1950, 230, 1103-1105.
4. LeMagnen, J. [Olfacto-sexual phenomena in man.] (SCITRAN, trans.) Archives des Sciences Physiologiques, (Paris), 1952, 6, 125-160.
5. Pangborn, R. M., & Berggen, B. Human parotid secretion in response to pleasant and unpleasant odorants. Psychophysiology, 1973, 10, 231-237.

6. Russell, M. J. Human olfactory communication. Nature, 1976, 160, 520-522.
7. Schneider, R. A., & Wolf, S. Olfactory perception thresholds for citral utilizing a new olfactorium. Journal of Applied Physiology, 1955, 8, 337-342.
8. Venstrom, D., & Amoore, J. E. Olfactory threshold in relation to age, sex, or smoking. Journal of Food Science, 1968, 33, 264-265.

#### E. TASTE

1. Fergenson, P. E. The effect of signal probability, food intake, sex, and smoking on the gustatory response to sucrose, as measured by the theory of signal detectability (Doctoral dissertation, University of Massachusetts, 1969). Dissertation Abstracts International, 1970, 30, 3885B. (University Microfilms No. 70-2365)
2. Soltan, H. C., & Bracken, S. E. The relation of sex to taste reactions for P.T.C., sodium benzoate and four "standards." Journal of Heredity, 1958, 49, 280-284.

#### F. THERMAL/TACTILE SENSITIVITY

1. Bell, R. Q., & Costello, N. S. Three tests for sex differences in tactile sensitivity in the newborn. Biology of the Neonate, 1964, 7, 335-347.
2. Burse, R. L., Goldman, R. F., & Stubbman, A. E. Difference between males and females of military age in their physiological responses to cold and hot environments. Natick, MA: Military Ergonomics Division, US Army Research Institute of Environmental Medicine, 16 Dec 1975.
3. Clark, W. C., Mehl, L., & Rutter, E. R. Effect of sex and age on thermal sensitivity ( $d'$ ) and the criterion for pain. Proceedings of the 78th Annual Convention of the American Psychological Association, 1970, 5, 35-36.
4. Dubois, E. F., Ebaugh, F. G., Jr., & Hardy, J. D. Basal heat production and elimination of thirteen normal women at temperatures from 22°C - 35°C. Journal of Nutrition, 1952, 48, 257-293.
5. Fox, R. H., Lofstedt, B. E., Woodward, P. M., Eriksson, E., & Werkstrom, B. Comparison of thermoregulatory function in men and women. Journal of Applied Physiology, 1969, 26, 444-453.
6. Hall, R. J., Rosenberger, M. A., & Monty, R. A. Cutaneous perception of heroin addicts: Evidence of an altered temporal process. Bulletin of the Psychonomic Society, 1974, 3, 352-354.
7. Haslag, W. M., & Hertzman, A. B. Temperature regulation in young women. Journal of Applied Physiology, 1965, 20, 1283-1288.

8. Kenshalo, D. R. The skin senses. (Proceedings of the first symposium on the skin senses.) Springfield, IL: Charles C. Thomas, 1966.
9. Kenshalo, D. R. Psychophysical studies of human temperature sensitivity. In W. D. Neff (Ed.), Contributions to sensory physiology (Vol. 4). New York: Academic Press, 1970.
10. Kenshalo, D. R., Nafe, J. P., & Brooks, B. Variations in thermal sensitivity. Science, 1961, 134, 104-105.
11. Korn, J. H., & Moyer, K. E. Effects of set and sex on the electrodermal orienting response. Psychophysiology, 1968, 4, 453-459.
12. Langford, N., Hall, R. J., & Monty, R. A. Cutaneous perception of a track produced by a moving point across the skin. Journal of Experimental Psychology, 1973, 97, 59-63.
13. Murray, D. J., Ward, R., & Hockley, W. E. Tactile short-term memory in relation to the two-point threshold. Quarterly Journal of Experimental Psychology, 1975, 27, 303-312.
14. Rohles, F. H., Jr. Thermal sensations of sedentary man in moderate temperatures. Human Factors, 1971, 13, 553-560.
15. Rohles, F. H., Jr. The modal comfort envelope and its use in current standards. Human Factors, 1974, 16, 314-322.

#### G. PAIN

1. Blitz, B., & Dinnerstein, A. J. Role of attentional focus in pain perception: Manipulation of response to noxious stimuli by instructions. Journal of Abnormal Psychology, 1971, 77, 42-45.
2. Folkard, S., Glynn, C. J., & Lloyd, J. W. Diurnal variation and individual differences in the perception of intractable pain. Journal of Psychosomatic Research, 1976, 20, 289-301.
3. Leon, B. N. Pain perception and extraversion. Perceptual and Motor Skills, 1974, 38, 510.
4. Notermans, S. L. H., & Tophoff, M. M. W. A. Sex differences in pain tolerance and pain apperception. Psychiatria, Neurologia, Neurochirurgia, 1967, 70, 23-29.
5. Petrovich, D. V. The Pain Apperception Test: An application to sex differences. Journal of Clinical Psychology, 1959, 15, 412-415.
6. Stevens, R. R. Sex differences and personality correlates of pain experience (Doctoral dissertation, Washington State University, 1967). Dissertation Abstracts, 1967, 28, 2633B. (University Microfilms No. 67-15771)
7. Strassberg, D. S., & Klinger, B. I. The effect on pain tolerance of social pressure within the laboratory setting. Journal of Social Psychology, 1972, 89, 123-130.
8. Woodrow, K. M., Friedman, G. D., Seigelaub, A. B., & Collen, M. F. Pain tolerance: Differences according to age, sex, and race. Psychosomatic Medicine, 1972, 34, 548-556.



## H. ELECTROENCEPHALOGRAPHY/EVOKED POTENTIALS

1. Buchsbaum, M. S., Henken, R. I., & Christiansen, R. L. Age and sex differences in averaged evoked responses in a normal population, with observations on patients with gonadal dysgenesis. Electroencephalography and Clinical Neurophysiology, 1974, 37, 137-144.
2. Davidson, R. J., Schwartz, G. E., Pugash, E., & Bromfield, E. Sex differences in patterns of EEG asymmetry. Biological Psychology, 1976, 4, 119-138.
3. Lindsley, D. B., & Rubenstein, B. B. Relationship between brain potentials and some other physiological variables. Proceedings of the Society for Experimental Biology and Medicine, 1937, 35, 558-563.
4. Schenkenberg, T., & Dustman, R. E. Visual auditory, and somatosensory evoked response changes related to age, hemisphere, and sex. Proceedings of the 78th Annual Convention of the American Psychological Association, 1970, 5, 183-184.
5. Stenn, P. G., Glaiber, E. L., Vogel, W., & Broverman, D. M. Testosterone effects upon photic stimulation of the EEG and mental performance of humans. Perceptual and Motor Skills, 1972, 34, 371-378.

## I. GALVANIC SKIN RESPONSE

1. Berry, J. L., & Martin, B. GSR reactivity as a function of anxiety, instructions, and sex. Journal of Abnormal and Social Psychology, 1957, 54, 9-12.
2. Kimmel, H. D., & Kimmel, E. Sex differences in adaptation of the GSR under repeated applications of a visual stimulus. Journal of Experimental Psychology, 1965, 70, 536-537.
3. Kopacz, F. M., II, & Smith, B. D. Sex differences in skin conductance measures as a function of shock threat. Psychophysiology, 1971, 8, 293-303.
4. Leiderman, P. H., & Shapiro, D. Studies in the galvanic skin potential: Some behavioral correlates. Journal of Psychosomatic Research, 1964, 7, 269-275.
5. Purohit, A. P. Personality variables, sex-difference, G.S.R. responsiveness and G.S.R. conditioning. Journal of Experimental Research in Personality, 1966, 1, 166-173.

## J. BRAIN LATERALITY/HEMISPHERIC SPECIALIZATION

1. Allard, F. A. Dichotic listening and mechanisms of cerebral dominance [Doctoral dissertation, University of Waterloo (Canada), 1973]. Dissertation Abstracts International, 1974, 34, 5159B. [Dissertation available for consultation at the University of Waterloo Library.]
2. Annett, M. Growth of manual preference and speed. British Journal of Psychology, 1970, 61, 545-558.
3. Berlin, C. I., Hughes, L. F., Lowe-Bell, S. S., & Berlin, H. L. Dichotic right ear advantage in children 5 to 13. Cortex, 1973, 9, 394-402.
4. Borowy, T. D. Developmental parameters of the ear asymmetry phenomenon: The effects of sex, race, and socio-economic class (Doctoral dissertation, University of Florida, 1973). Dissertation Abstracts International, 1974, 34, 5668B-5669B. (University Microfilms No. 74-10024)
5. Briggs, G. G., & Nebes, R. D. The effects of handedness, family history and sex on the performance of a dichotic listening task. Neuropsychologia, 1976, 14, 129-133.
6. Carr, B. M. Ear effect variables and order of report in dichotic listening. Cortex, 1969, 5, 63-68.
7. Cohen, B. D., Berent, S., & Silverman, A. J. Field dependence and lateralization of function in the human brain. Archives of General Psychiatry, 1973, 28, 165-167.
8. Davidson, R. J., & Schwartz, G. E. Patterns of cerebral lateralization during cardiac biofeedback versus the self-regulation of emotion: Sex differences. Psychophysiology, 1976, 13, 62-68.
9. Dimond, S. J., Farrington, L., & Johnson, P. Differing emotional response from right and left hemisphere. Nature, 1976, 261, 690-692.
10. Dwyer, J. H. Contextual inferences and the right cerebral hemisphere: Listening with the left ear (Doctoral dissertation, University of California, Santa Cruz, 1975). Dissertation Abstracts International, 1976, 36, 5862B-5863B. (University Microfilms No. 76-9870)
11. Hannay, H. J. Real or imagined incomplete lateralization of function in females? Perception & Psychophysics, 1976, 19, 349-352.
12. Heim, A. W., & Watts, K. P. Handedness and cognitive bias. Quarterly Journal of Experimental Psychology, 1976, 28, 355-360.
13. Kaufman, P. K. Genetic, physical, and psychological correlates of handedness and eye dominance (Doctoral dissertation, University of Minnesota, 1974). Dissertation Abstracts International, 1975, 35, 5939B-5940B. (University Microfilms No. 75-12091)
14. Kimura, D. Speech lateralization in young children as determined by an auditory test. Journal of Comparative and Physiological Psychology, 1963, 56, 899-902.

15. Kimura, D. Spatial localization in the left and right visual field. Canadian Journal of Psychology, 1969, 23, 445-458.
16. Kimura, D., & Durnford, M. Normal studies on the function of the right hemisphere in vision. In S. J. Dimond & J. G. Beaumont (Eds.), Hemisphere function in the human brain. London: Elek Science, 1975.
17. Knox, C., & Kimura, D. Cerebral processing of nonverbal sounds in boys and girls. Neuropsychologia, 1970, 8, 227-237.
18. Lake, D. A., & Bryden, M. P. Handedness and sex differences in hemispheric asymmetry. Brain and Language, 1976, 3, 266-282.
19. Lansdell, H. A sex difference in the effect of temporal lobe neurosurgery on design preference. Nature, 1962, 194, 852-854.
20. McGee, M. G. Laterality, hand preference, and human spatial ability. Perceptual and Motor Skills, 1976, 42, 781-782.
21. McGlone, J., & Davidson, W. The relation between cerebral speech laterality and spatial ability with special reference to sex and hand preference. Neuropsychologia, 1973, 11, 105-113.
22. McGlone, J., & Kertese, A. Sex differences in cerebral processing of visuospatial tasks. Cortex, 1973, 9, 313.
23. McKeever, W. F., & Haling, M. D. Lateral dominance in tachistoscopic word recognition performances obtained with simultaneous bilateral input. Neuropsychologia, 1971, 9, 15-20.
24. Milner, B. Interhemispheric differences in the localization of psychological processes in man. British Medical Bulletin, 1971, 27, 272.
25. Molfese, D. L., Freeman, R. B., & Palermo, D. S. The ontogeny of brain lateralization for speech and non-speech stimuli. Brain and Language, 1975, 2, 356-368.
26. Ray, W. J., Morell, M., Frediani, A. W., & Tucker, D. Sex differences and lateral specialization of hemispheric functioning. Neuropsychologia, 1976, 14, 391-394.
27. Taylor, D. C. Differential rates of maturation between sexes and between hemispheres. Lancet, 1969, 2, 140-142.
28. Van Duyne, H. J., D'Alonzo, B. J., & Scanlon, D. Amount of verbal information and ear-differences in 5- and 6-year old boys and girls. Perceptual and Motor Skills, 1976, 43, 31-39.
29. Wada, J. A., Clake, R., & Hamm, A. Cerebral hemispheric asymmetry in humans. Archives of Neurology, 1975, 32, 239-246.
30. Witelson, S. F. Hemispheric specialization for linguistic and non-linguistic tactual perception using a dichotomous stimulation technique. Cortex, 1974, 10, 3-17.
31. Witelson, S. F. Sex and the single hemisphere: Specialization of the right hemisphere for spatial processing. Science, 1976, 193, 425-427.

#### K. RESPONSE TO STRESS

1. Frankenhaeuser, M., Dunne, E., & Lundberg, U. Sex differences in sympathetic-adrenal medullary reactions induced by different stressors. Psychopharmacologia, 1976, 47, 1-5.
2. Gentry, W. D. Sex differences in the effects of frustration and attack on emotion and vascular processes. Psychological Reports, 1970, 27, 383-390.
3. Graham, L. A., Cohen, S. I., & Shmavonian, B. M. Sex differences in autonomic responses during instrumental conditioning. Psychosomatic Medicine, 1966, 28, 264-271.
4. Knott, J. R., & Peters, J. F. Sex, stress, and interstimulus interval. Electroencephalography and Clinical Neurophysiology, (Supplement), 1973, 33, 191-193.
5. Liberson, C. W. Sex differences in autonomic responses (heart rate, respiration and blood pressure) to electric shock (Doctoral dissertation, Loyola University of Chicago, 1972). Dissertation Abstracts International, 1973, 34, 441B. (University Microfilms No. 73-16, 819)
6. Myrsten, A.-L., Hollstedt, C., & Holmberg, L. Alcohol-induced changes in mood and activation in males and females as related to catecholamine excretion and blood alcohol level. Scandinavian Journal of Psychology, 1975, 16, 303-310.
7. Noble, C. E., & Hays, J. R. Discrimination reaction performance as a function of anxiety and sex parameters. Perceptual and Motor Skills, 1966, 23, 1267-1278.
8. Spence, K. W., & Spence, J. T. Sex and anxiety differences in eyelid conditioning. Psychological Bulletin, 1966, 65, 137-142.
9. Wilkinson, R. T. Some factors influencing the effects of environmental stressors upon performance. Psychological Bulletin, 1969, 72, 260-272.

### III. SEX DIFFERENCES IN COGNITIVE AND MOTOR ABILITIES

#### A. MOTOR SKILLS/MOTOR LEARNING

1. Ammons, R. B., Alprin, S. I., & Ammons, C. H. Rotary pursuit performance as related to sex and age of pre-adult subjects. Journal of Experimental Psychology, 1955, 49, 127-133.
2. Archer, E. J. Effect of distribution of practice on a component skill of rotary pursuit tracking. Journal of Experimental Psychology, 1958, 56, 427-436.
3. Bachman, J. C. Motor learning and performance as related to age and sex in two measures of balance coordination. Research Quarterly, 1961, 32, 123-137.
4. Buxton, C. E., & Grant, D. A. Retroaction and gains in motor learning: II. Sex differences, and a further analysis of gains. Journal of Experimental Psychology, 1939, 25, 198-208.
5. Connolly, K., Brown, K., & Bassett, E. Developmental changes in some components of a motor skill. British Journal of Psychology, 1968, 59, 305-314.
6. Connolly, K., & Stratton, P. Developmental changes in associated movements. Developmental Medicine and Child Neurology, 1968, 10, 49-56.
7. Cook, T. W., & Shepard, A. H. Performance on several control-display relationships as a function of age and sex. Perceptual and Motor Skills, 1958, 8, 339-345.
8. Daly, R. F., & Matthews, C. G. Impaired motor function in XYY males. Neurology, 1974, 24, 655-658.
9. Darden, E., & Shappell, R. T. Performance by males and females on three motor tasks under standard and mirror reversal conditions. Research Quarterly, 1972, 43, 460-467.
10. Davol, S. H., & Breakell, S. L. Sex differences in rotary pursuit performance of young children. Perceptual and Motor Skills, 1968, 26, 1199-1202.
11. Eckert, H. M. Variability in skill acquisition. Child Development, 1974, 45, 487-489.
12. Freedman, B. E. Task performance as a function of task sex-typing (Doctoral dissertation, Syracuse University, 1974). Dissertation Abstracts International, 1975, 36, 440B. (University Microfilms No. 75-13984)
13. Gutin, B., Fogle, R. K., Meyer, J., & Jaeger, M. Steadiness as a function of prior exercise. Journal of Motor Behavior, 1974, 6, 69-76.
14. Hagen, R. E. An assessment of sex differences in the performance of a simulated driving task (Doctoral dissertation, University of South Dakota, 1971). Dissertation Abstracts International, 1971, 32, 3031B. (University Microfilms No. 71-27816)
15. Hagen, R. E. Sex differences in driving performance. Human Factors, 1975, 17, 165-171.
16. Husband, R. W., & Ludden, M. J. Sex differences in motor skills. Journal of Experimental Psychology, 1931, 14, 414-422.

17. Krauss, I. K. The developing influence of sex-role stereotyping and competition on manual task performance (Doctoral dissertation, Rutgers University, 1975) Dissertation Abstracts International, 1976, 36, 3648B. (University Microfilms No. 76-1119)
18. Martens, R., Gill, D. L., & Scanlan, T. K. Competitive trait anxiety, success-failure and sex as determinants of motor performance. Perceptual and Motor Skills, 1976, 43, 1199-1208.
19. Noble, C. E. The learning of psychomotor skills. Annual Review of Psychology, 1968, 19, 203-250.
20. Noble, C. E. Acquisition of pursuit tracking skill under extended training as a joint function of sex and initial ability. Journal of Experimental Psychology, 1970, 86, 360-373.
21. Noble, C. E., Baker, B. L., & Jones, T. A. Age and sex parameters in psychomotor learning. Perceptual and Motor Skills, 1964, 19, 935-945.
22. Noble, C. E., & Noble, C. S. Pursuit tracking skill with separate and combined visual and auditory feedback. Journal of Motor Behavior, 1972, 4, 195-205.
23. Ong, J., & Rodman, T. Sex and eye-hand preferential difference in star-tracing performance. American Journal of Optometry, 1972, 49, 436-438.
24. Ryan, T. T., & Pryor, F. A. Sex cues in estimating and performing a simple motor task. Perceptual and Motor Skills, 1976, 43, 547-552.
25. Shealy, J. E., Geyer, L. H., & Hayden, R. Epidemiology of ski injuries: Effect of method of skill acquisition and release binding accident rates. Human Factors, 1974, 16, 459-473.
26. Shephard, A. H., Abbey, D. S., & Humphries, M. Age and sex in relation to perceptual-motor performance on several control-display relations on the TCC. Perceptual and Motor Skills, 1962, 14, 103-118.
27. Simon, J. R. Effects of exposure to localized vibration on hand steadiness. Perceptual and Motor Skills, 1969, 28, 91-94.
28. Wolff, P. H., & Hurwitz, I. Sex differences in finger-tapping: A developmental study. Neuropsychologia, 1976, 14, 35-41.

## B. STRENGTH/ANTHROPOMETRY

1. Bäcklund, L., & Nordgren, L. A new method for testing isometric muscle strength under standardized conditions. Scandinavian Journal of Clinical Laboratory Investigation, 1968, 21, 33-41.
2. Chaffin, D. B. Human strength capability and low-back pain. Journal of Occupational Medicine, 1974, 16, 248-254.
3. Chaffin, D. B. Ergonomics guide for the assessment of human static strength. American Industrial Hygiene Association Journal, 1975, 36, 505-511.
4. Durnin, J. V. G. A., & Womersley, J. Body fat assessed from total body density and its estimation from skinfold thickness: Measurements on 481 men and women aged from 16 to 72 years. British Journal of Nutrition, 1974, 32, 77-97.
5. Harris, D. V. Jumping genes. womenSports, July 1977, 25.
6. Hosler, W. W. Electromyographic and girth considerations relative to strength training. Perceptual and Motor Skills, 1977, 44, 293-294.
7. Hunsicker, P. A., & Greey, G. Studies in human strength. Research Quarterly, 1957, 28, 109-121.
8. Ikai, M., & Steinhaus, A. H. Some factors modifying the expression of human strength. Journal of Applied Physiology, 1961, 16, 157-163.
9. Jenni, D. A., & Jenni, M. A. Carrying behavior in humans: Analysis of sex differences. Science, 1976, 194, 859-860.
10. Jenni, M. A. Sex differences in carrying behavior. Perceptual and Motor Skills, 1976, 43, 323-330.
11. Johnson, B. L., & Nelson, J. K. Effect of different motivational techniques during training and in testing upon strength performance. Research Quarterly, 1967, 38, 630-636.
12. Jørgensen, K., & Paulsen, E. Physiological problems in repetitive lifting with special reference to tolerance limits to the maximum lifting frequency. Ergonomics, 1974, 17, 31-39.
13. Kassab, S. J. Research note: Reduction of muscular fatigue associated with repetitive light assembly operations by means of arm counterbalancing. Human Factors, 1974, 16, 323-326.
14. Kroemer, K. H. E. Human strength: Terminology, measurement, and interpretation of data. Human Factors, 1970, 12, 297-313.
15. Laubach, L. L. Muscular strength of women and men: A comparative study (AMRL-TR-75-32). Wright-Patterson Air Force Base, OH: Aerospace Medical Research Laboratory, Aerospace Medical Division, Air Force Systems Command, May 1976.
16. Laubach, L. L., & McConville, J. T. The relationship of strength to body size and typology. Medicine and Science in Sports, 1969, 1, 189-194.



17. Lester, D. Age, sex and racial differences in morphology. Psychological Reports, 1976, 38, 106.
18. Ricci, B. Physiological basis of human performance. Philadelphia: Lea & Febiger, 1967.
19. Rikli, R. Effects of experimenter expectancy set and experimenter sex upon grip strength and hand steadiness scores. Research Quarterly, 1974, 45, 416-423.
20. Spottswood, P. J., & Burghardt, G. M. The effects of sex, book weight, and grip strength on book-carrying styles. Bulletin of the Psychonomic Society, 1976, 8, 150-152.

#### C. VIGILANCE/ATTENTION

1. Broadbent, C. E. Noise, paced performance and vigilance tasks. British Journal of Psychiatry, 1953, 44, 295-303.
2. Coules, J., & Avery, D. L. Human performance and basal skin conductance in a vigilance-type task with and without knowledge of results. Perceptual and Motor Skills, 1966, 23, 1295-1302.
3. Davenport, W. G. Vigilance and arousal: Effects of different types of background stimulation. Journal of Psychology, 1972, 82, 339-346.
4. Davies, D. R., & Tunes, G. S. Human vigilance performance. London: Staples, 1970.
5. Kataoka, J. Free physical movements during waiting while standing and sitting. Journal of Human Ergology, 1975, 4, 3-13.
6. Mahoney, J., & Hartnett, J. Perceptual resistance and melanin density. Perceptual and Motor Skills, 1976, 42, 783-788.
7. McCann, P. H. The effects of ambient noise on vigilance performance. Human Factors, 1969, 11, 251-256.
8. Silverman, J. Attentional styles and the study of sex differences. In D. Mostofsky (Ed.), Attention: Contemporary theory and analyses. New York: Appleton-Century-Crofts, 1970.
9. Waag, W. L., Halcomb, C. G., & Tyler, D. M. Sex differences in monitoring performance. Journal of Applied Psychology, 1973, 58, 272-274.
10. Wokoun, W. Vigilance with background music (TM 16-63). Aberdeen Proving Ground, MD: US Army Human Engineering Laboratory, 1963.

#### D. REACTION TIME

1. Coles, M. G. H., Porges, S. W., & Duncan-Johnson, C. C. Sex differences in performance and associated cardiac activity during a reaction task. Physiological Psychology, 1975, 3, 141-143.
2. Engel, P., & Hildebrandt, G. [The rhythmic variations in the reaction time in human subjects.] Psychologische Forschung, 1969, 32, 324-336. (English Abstract)
3. Fulton, C. D., & Hubbard, A. W. Effect of puberty on reaction and movement times. Research Quarterly, 1975, 46, 335-344.
4. Hodgkins, J. Reaction time and speed of movement in males and females of various ages. Research Quarterly, 1963, 34, 335-343.
5. Mathur, V. K. Sex differences in reaction time. Indian Journal of Psychology, 1964, 39, 31-33.
6. Metzger, R. L., & Antes, J. R. Sex and coding strategy effects on reaction time to hemispheric probes. Memory and Cognition, 1976, 4, 167-171.

#### E. TIME ESTIMATION

1. Carlson, V. R., & Feinberg, I. Time judgment as a function of method, practice, and sex. Journal of Experimental Psychology, 1970, 85, 171-180.
2. Geer, J. H., Platt, P. E., & Singer, M. A sex difference in time estimation. Perceptual and Motor Skills, 1964, 19, 42.
3. Goldstone, S. Variability of temporal judgement: Intersensory comparisons and sex differences. Perceptual and Motor Skills, 1968, 26, 211-215.
4. Greenberg, R. P., & Kurz, R. B. Influence of type of stressor and sex of subject on time estimation. Perceptual and Motor Skills, 1968, 26, 899-903.

## F. COGNITIVE SKILLS/INTELLIGENCE

1. Brekke, B., & Williams, J. D. Conservation and sex. Perceptual and Motor Skills, 1973, 37, 14.
2. Fairweather, H. Sex differences in cognition. Cognition, 1976, 4, 231-280.
3. Gainer, W. L. The ability of the WISC subtests to discriminate between boys and girls of average intelligence. California Journal of Educational Research, 1962, 13, 9-16.
4. Hetherington, M., & Ross, L. E. Effect of sex of subject, sex of experimenter, and reinforcement condition on serial learning. Journal of Experimental Psychology, 1963, 65, 572-575.
5. Hobson, J. R. Sex differences in primary mental abilities. Journal of Educational Research, 1947, 41, 126-132.
6. Humphreys, L. G., Pang-Chieh, L., & Fleishman, A. The sex by race interaction in cognitive measures. Journal of Experimental Research in Personality, 1976, 10, 42-58.
7. Miele, J. A. Sex differences in intelligence: The relationship of sex to intelligence as measured by the Wechsler Adult Intelligence Scale and the Wechsler Intelligence Scale for Children (Doctoral dissertation, New York University, 1958). Dissertation Abstracts, 1958, 18, 2213. (University Microfilms No. 58-2129)
8. Norman, R. D. Sex differences and other aspects of young superior adult performance on the Wechsler Bellevue. Journal of Consulting Psychology, 1953, 17, 411-418.
9. Samuels, F. Sex differences in reading achievement. Journal of Educational Research, 1943, 36, 594-603.
10. Sarason, I. G., & Harmatz, M. G. Sex differences and experimental conditions in serial learning. Journal of Personality and Social Psychology, 1965, 1, 521-524.
11. Schneider, G. R., & Paterson, D. G. Sex differences in clerical aptitude. Journal of Educational Psychology, 1942, 33, 303-309.
12. Vitola, B. M., & Wilbourn, J. M. Comparative performance of male and female enlistees on Air Force selection measures (Tech. Rep. No. 71-9). Lackland Air Force Base, TX: Air Force Human Resources Laboratory, February 1971. (AD 726 531)

## G. MEMORY

1. Barr-Brown, M., & White, M. J. Sex differences in recognition memory. Psychonomic Science, 1971, 25, 75-76.
2. Ernest, C. H., & Paivio, A. Imagery and sex differences in incidental recall. British Journal of Psychology, 1971, 62, 67-72.
3. Friedrich, D. Developmental analysis of memory capacity and information encoding strategy. Developmental Psychology, 1974, 10, 559-563.
4. Kelley, H. P. Memory abilities: A factor analysis. Psychometric Monographs, 1964, No. 11.
5. King, D. J., & Dodge, A. The influence of oral recall on immediate and delayed memory for meaningful material practiced under delayed auditory feedback. Journal of Psychology, 1965, 59, 141-147.
6. Sommer, R. Sex differences in the retention of quantitative information. Journal of Educational Psychology, 1958, 49, 187-192.

## H. PROBLEM SOLVING/DECISION MAKING

1. Bennett, G. K., & Cruikshank, R. M. Sex differences in the understanding of mechanical problems. Journal of Applied Psychology, 1942, 26, 121-127.
2. Burke, R. J. Sex differences in recognizing the correct answer to a problem. Psychological Reports, 1965, 17, 532-534.
3. Carey, G. L. Sex differences in problem-solving performance as a function of attitude differences. Journal of Abnormal and Social Psychology, 1958, 56, 256-260.
4. Cattell, R. B., & Lawson, E. D. Sex differences in small group performance. Journal of Social Psychology, 1962, 58, 141-145.
5. Drinkwater, B. L. Speed and accuracy in decision responses of men and women pilots. Ergonomics, 1968, 11, 61-67.
6. Hoffman, L. R., & Maier, N. R. F. Sex differences, sex composition, and group problem solving. Journal of Abnormal and Social Psychology, 1961, 63, 453-456.
7. Knestrick, J. L. Effect of sex in accuracy of predictive judgment. Perceptual and Motor Skills, 1975, 41, 355-360.
8. Kogan, N. Creativity and sex differences. Journal of Creative Behavior, 1974, 8, 1-14.
9. Maier, N. R. F., & Solem, A. R. The contribution of a discussion leader to the quality of group thinking: The effective use of minority opinions. Human Relations, 1952, 5, 277-288.

10. Milton, G. A. The effects of sex-role identification upon problem-solving skill. Journal of Abnormal and Social Psychology, 1957, 55, 208-212.
11. Milton, G. A. Sex differences in problem-solving as a function of appropriateness of the problem content. Psychological Reports, 1959, 5, 705-708.
12. Priest, R. F., & Hunsaker, P. L. Compensating for a female disadvantage in problem-solving. Journal of Experimental Research in Personality, 1969, 4, 57-64.
13. Roll, S. Sex differences in problem-solving as a function of content and order of presentation. Psychonomic Science, 1970, 19, 97.
14. Rosenthal, S. F. The performance of same- and mixed-sex dyads on problem-solving tasks (Doctoral dissertation, University of Illinois at Chicago Circle, 1975). Dissertation Abstracts International, 1975, 36, 1975B-1976B. (University Microfilms No. 75-23363)
15. Sakala, M. K. Effects of format structure, sex, and task familiarity on the comprehension of procedural instructions (Contract N68 335-75-1129). Washington, DC: Naval Air Systems Command, 1976.
16. Sweeney, E. J. Sex differences in problem solving (TR-1, Contract N6onr 25125). Stanford, CA: Stanford University, Department of Psychology, December 1953.
17. Young, M. L. Age and sex differences in problem solving. Journal of Gerontology, 1971, 26, 330-336.

#### I. COLOR/WORD INTERFERENCE

1. Golden, C. J. Sex differences in performance on the Stroop color and word test. Perceptual and Motor Skills, 1974, 39, 1067-1070.
2. Peretti, P. O. Cross-sex and cross-educational level performance in a color-word interference task. Psychonomic Science, 1969, 16, 321-323.
3. Peretti, P. O. Effects of noncompetitive, competitive instructions, and sex on performance in a color-word interference task. Journal of Psychology, 1971, 79, 67-70.

## J. VERBAL/SPATIAL SKILLS, IMAGERY

1. Bock, R. D. Word and image: Sources of the verbal and spatial factors in mental test scores. Psychometrika, 1973, 38, 437-457.
2. Cohen, D. Usefulness of the group-comparison method to demonstrate sex differences in spatial orientation and spatial visualization in older men and women. Perceptual and Motor Skills, 1976, 43, 388-390.
3. Coltheart, M., Hull, E., & Slater, D. Sex differences in imagery and reading. Nature, 1975, 253, 438-440.
4. Connor, J. M., Schackman, M., & Serbin, L. A. Sex-related differences in response to practice on a visual spatial test and generalization to a related test. Child Development, in press.
5. Connor, J. M., Serbin, L. A., & Schackman, M. Sex differences in children's response to training on a visual-spatial test. Developmental Psychology, 1977, 13, 293-294.
6. Dawson, J. L. M. Cultural and physiological influences upon spatial-perceptual processes in West Africa. Part I. International Journal of Psychology, 1967, 2, 115-128.
7. Dawson, J. L. M. Cultural and physiological influences upon spatial-perceptual processes in West Africa. Part II. International Journal of Psychology, 1967, 2, 171-185.
8. Eliot, J., & Fralley, J. S. Sex differences in spatial abilities. Young Children, 1976, 31, 487-496.
9. Geiringer, E. R., & Hyde, J. S. Sex differences on Piaget's water-level task: Spatial ability incognito. Perceptual and Motor Skills, 1976, 42, 1323-1328.
10. Karnovsky, A. R. Sex differences in spatial ability: A developmental study (Doctoral dissertation, Harvard University, 1973). Dissertation Abstracts International, 1974, 34, 7586A. (University Microfilms No. 74-12813)
11. Lindauer, M. S. Form imagery to colors. Perceptual and Motor Skills, 1973, 36, 165-166.
12. Marks, D. F. Visual imagery differences in the recall of pictures. British Journal of Psychology, 1973, 64, 17-24.
13. McCarthy, K. A. Sex bias in tests of mechanical aptitude (Doctoral dissertation, The City University of New York, 1976). Dissertation Abstracts International, 1976, 36, 7301A. (University Microfilms No. 76-11629)
14. Nerlove, S. B., Munroe, R. H., & Munroe, R. L. Effect of environmental experience on spatial ability: A replication. Journal of Social Psychology, 1971, 84, 3-10.
15. Sherman, J. A. Problem of sex differences in space perception and aspects of intellectual functioning. Psychological Review, 1967, 74, 290-299.
16. Sherman, J. A. Field articulation, sex, spatial visualization, dependency, practice, laterality of the brain and birth order. Perceptual and Motor Skills, 1974, 38, 1223-1235.

## K. AFTERIMAGES

1. Brownfield, M. K. Sex and stimulus time difference in afterimage durations. Perceptual and Motor Skills, 1965, 21, 446.
- Immergluck, L. Figural aftereffect potency: A function of sex or field- dependence? Psychonomic Science, 1970, 18, 317-318.
3. Koffman, G., & Pressey, A. W. Sex differences on a group test of figural after-effects. Psychonomic Science, 1967, 8, 511-512.
4. McGuinness, D., & Lewis, I. Sex differences in visual persistence: Experiments on the Ganzfeld and afterimages. Perception, 1976, 5, 295-301.
5. Pressey, A. W. Sex differences on tests of visual figural aftereffects. Acta Psychologica, 1970, 34, 78-88.
6. Pressey, A. W., & Koffman, G. Figural aftereffects, illusions, and the dimension of field dependence. Psychonomic Science, 1968, 10, 279-280.
7. Satinder, K. P. A note on sex differences in figural after-effects. Psychological Studies, 1965, 10, 143-144.
8. Satinder, K. P. Effects of intermodal stimulation on figural after-effects. British Journal of Psychology, 1966, 57, 1-5.

## L. FIELD DEPENDENCE

1. Berry, J. W. Temne and Eskimo perceptual skills. International Journal of Psychology, 1966, 1, 207-229.
2. Bush, D. F., & Coward, R. T. Sex differences in the solution of achromatic and chromatic imbedded figures. Perceptual and Motor Skills, 1974, 39, 1121-1122.
3. Goodenough, D. R. The role of individual differences in field dependence as a factor in learning and memory. Psychological Bulletin, 1976, 83, 675-694.
4. Hayes, R. W., & Venables, P. H. Sex differences in under-shoot with extended exposure time in the rod-and-frame test. Perceptual and Motor Skills, 1974, 38, 543-546.
5. Imam, A. Sex differences in field independence. Pakistan Journal of Psychology, 1975, 8, 69-78.
6. MacArthur, R. Sex differences in field dependence for the Eskimo: Replication of Berry's findings. International Journal of Psychology, 1967, 2, 139-140.

7. Mayo, P. R., & Bell, J. M. A note on the taxonomy of Witkin's field-independence measures. British Journal of Psychology, 1972, 63, 255-256.
8. Morell, J. A. Age, sex, training, and the measurement of field dependence. Journal of Experimental Psychology, 1976, 22, 100-112.
9. Morris, B. B. Effects of angle, sex and cue on adults' perception of the horizontal. Perceptual and Motor Skills, 1971, 32, 827-830.
10. Naditch, S. F. Effect of experimental artifact on sex differences in field dependence (Doctoral dissertation, Cornell University, 1975). Dissertation Abstracts International, 1976, 36, 5869B-5870B. (University Microfilms No. 76-9552)
11. Parlee, M. B., & Rajagopal, J. Sex differences on the embedded-figures test: A cross-cultural comparison of college students in India and in the United States. Perceptual and Motor Skills, 1974, 39, 1311-1314.
12. Perney, V. H. Effects of race and sex on field dependence-independence in children. Perceptual and Motor Skills, 1976, 42, 975-980.
13. Pitblado, C. Superior performance by women in a visual-orienting task: A limit on the concept of field dependence. Perceptual and Motor Skills, 1976, 42, 1195-2000.
14. Renzi, N. B. A study of some effects of field dependence-independence and feedback on performance achievement (Doctoral dissertation, Hofstra University, 1974). Dissertation Abstracts International, 1974, 35, 2059A. (University Microfilms No. 74-21861)
15. Svinicki, J. G., Bundgaard, C. J., Schwensohn, C. H., & Westgor, D. J. Physical activity and visual field-dependency. Perceptual and Motor Skills, 1974, 39, 1237-1238.
16. Witkin, H. A. Individual differences in ease of perception of embedded figures. Journal of Personality, 1950, 19, 1-15.

#### M. BIOLOGICAL BASES OF SEX DIFFERENCES IN COGNITIVE ABILITIES

1. Anastasi, A. Four hypotheses with a dearth of data: Response to Lehrke's "A theory of X-linkage of major intellectual traits." American Journal of Mental Deficiency, 1972, 76, 620-622.
2. Archer, J. Sex differences in emotional behaviour: A reply to Gray and Buffery. Acta Psychologica, 1971, 35, 415-429.
3. Bock, R. D., & Kalakowski, D. Further evidence of sex-linked major gene influence on human spatial visualizing ability. American Journal of Human Genetics, 1973, 25, 1-14.
4. Broverman, D. M., Klaiber, E. L., Kobayashi, Y., & Vogel, W. Roles of activation and inhibition in sex differences in cognitive abilities. Psychological Review, 1968, 75, 23-50.
5. Childs, B. Genetic origin of some sex differences among human beings. Pediatrics, 1965, 5, 798-812.



6. Freire-Maia, A., Freire-Maia, D. V., & Morton, N. E. Sex effect on intelligence and mental retardation. Behavior Genetics, 1974, 4, 269-272.
7. Garron, D. C. Sex-linked, recessive inheritance of spatial and numerical abilities, and Turner's syndrome. Psychological Review, 1970, 77, 147-152.
8. Gray, J. A. The psychophysical basis of introversion-extroversion. Behaviour Research and Theory, 1970, 8, 249-266.
9. Gray, J. A. Sex differences in emotional behaviour in mammals including man: Endocrine bases. Acta Psychologica, 1971, 35, 29-46.
10. Gray, J. A., & Buffery, A. W. H. Sex differences in emotional and cognitive behaviour in mammals including man: Adaptive and neural bases. Acta Psychologica, 1971, 35, 89-112.
11. Guttman, R. Genetic analysis of analytical spatial ability: Raven's progressive matrices. Behavior Genetics, 1974, 4, 273-274.
12. Hartlage, L. C. Sex-linked inheritance of spatial ability. Perceptual and Motor Skills, 1970, 31, 610.
13. Hutt, C. Sex differences in human development. Human Development, 1972, 15, 153-170.
14. Lehrke, R. A theory of X-linkage of major intellectual traits. American Journal of Mental Deficiency, 1972, 76, 611-619.
15. Masica, D. N., Money, J., Ehrhardt, A. A. & Lewis, V. G. IQ, fetal sex hormones and cognitive patterns: Studies in the testicular feminizing syndrome of androgen insensitivity. Johns Hopkins Medical Journal, 1969, 124, 34-43.
16. Money, J. Two cytogenetic syndromes: Psychologic comparisons. I. Intelligence and specific-factor quotients. Journal of Psychiatric Research, 1964, 2, 223-231.
17. Nance, W. E., & Engel, E. One X and four hypotheses: Response to Lehrke's "A theory of X-linkage of major intellectual traits." American Journal of Mental Deficiency, 1972, 76, 623-625.
18. Parlee, M. B. Comments on "Roles of activation and inhibition in sex differences in cognitive abilities" by D. M. Broverman, E. L. Klaiber, Y. Kobayashi, and W. Vogel. Psychological Review, 1972, 79, 180-184.
19. Passingham, R. E. The neurological basis of introversion-extroversion: Gray's theory. Behaviour Research and Therapy, 1970, 8, 353-366.
20. Singer, G., & Montgomery, R. B. Comment on roles of activation and inhibition in sex differences in cognitive abilities. Psychological Review, 1969, 76, 325-327.
21. Stafford, R. E. Sex differences in spatial visualization as evidence of sex-linked inheritance. Perceptual and Motor Skills, 1961, 13, 428.

22. Waber, D. P. Sex differences in cognition: A function of maturation rate? Science, 1976, 192, 572-573.
23. Wittig, M. A. Sex differences in intellectual functioning: How much of a difference do genes make? Sex Roles, 1976, 2, 63-74.
24. Yen, W. M. Sex-linked major-gene influences on selected types of spatial performance. Behavior Genetics, 1975, 5, 281-298.

#### IV. SEX DIFFERENCES IN PERSONALITY

#### A. EMOTIONALITY/ADAPTIVE STYLES

1. Allen, J. G., & Haccoun, D. M. Sex differences in emotionality - Multidimensional approach. Human Relations, 1976, 29, 711-722.
2. Aronfreed, J. A., Messick, S. A., & Diggory, J. C. Re-examining emotionality and perceptual defense. Journal of Personality, 1953, 21, 517-528.
3. Brannigan, G. G., & Tolor, A. Sex differences in adaptive styles. Journal of Genetic Psychology, 1971, 119, 143-149.
4. Clum, G. A., & Clum, J. Mood variability and defense mechanism preference. Psychological Reports, 1973, 32, 910.
5. Evans, H. I., & Sperekas, N. B. Reply to "Sex differences in adaptive styles." Journal of Genetic Psychology, 1975, 127, 317-318.
6. Nuttall, J. R. Sex differences in patterns of emotion (Doctoral dissertation, Michigan State University, 1974). Dissertation Abstracts International, 1975, 35, 4711B. (University Microfilms No. 75-7223)
7. Tolor, A., & Brannigan, G. G. Sex differences reappraised: A rebuttal. Journal of Genetic Psychology, 1975, 127, 319-321.

#### B. ACHIEVEMENT MOTIVATION/COMPETITION

1. Alper, T. Where are we now? Discussion of papers presented in the 1975 AERA Symposium on Sex Differences in Achievement Motivation and Achievement Behavior. Psychology of Women, 1977, 1, 294-302.
2. Argote, L. M., Fisher, J. E., McDonald, P. J., & O'Neal, E. C. Competitiveness in males and females: Situational determinants of fear of success behavior. Sex Roles, 1976, 2, 295-303.
3. Burghardt, N. R. Sex differences in the development of achievement-related motives, sex role identity, and performance in competitive and non-competitive conditions (Doctoral dissertation, University of Michigan, 1974). Dissertation Abstracts International, 1975, 35, 3549B. (University Microfilms No. 75-644)
4. Deaux, K., & Emswiller, T. Explanations of successful performance on sex-linked tasks: What is skill for the male is luck for the female. Journal of Personality and Social Psychology, 1974, 29, 80-85.
5. Deaux, K., White, L., & Farris, E. Skill versus luck: Field and laboratory studies of male and female preferences. Journal of Personality and Social Psychology, 1975, 32, 629-636.
6. Feij, J. A. Construct validation of a fear-of-failure measure using an operant type of behavior. Psychological Reports, 1975, 37, 1147-1151.

7. Kanter, R. M. The impact of hierarchical structures on the work behavior of women and men. Social Problems, 1976, 23, 415-430.
8. Makosky, V. P. Sex-role compatibility of task and of competitor, and fear of success as variables affecting women's performance. Sex Roles, 1976, 2, 237-248.

#### C. SEX ROLES/SOCIALIZATION

1. Birns, B. The emergence and socialization of sex differences in the earliest years. Merrill-Palmer Quarterly, 1976, 22, 229-254.
2. Day, D. R., & Stogdill, R. M. Leader behavior of male and female supervisors: A comparative study. Personnel Psychology, 1972, 25, 353-360.
3. Deaux, K., & Taynor, J. Evaluation of male and female ability: Bias works two ways. Psychological Reports, 1973, 32, 261-262.
4. Dweck, C. S. Children's interpretation of evaluative feedback: The effect of social cues on learned helplessness. Merrill-Palmer Quarterly, 1976, 22, 105-109.
5. Dyer, K. F. Social factors influencing female swimming performance. Journal of Biosocial Science, 1976, 8, 131-136.
6. Dyer, K. F. Social influences on female athletic performance. Journal of Biosocial Science, 1976, 8, 123-129.
7. Hagen, R. L., & Kahn, A. Discrimination against competent women. Journal of Applied Social Psychology, 1975, 5, 362-376.
8. Jacobson, M. B., & Effertz, J. Sex roles and leadership perceptions of the leaders and the led. Organizational Behavior and Human Performance, 1974, 12, 383-396.
9. Kidd, T. R., & Woodman, W. F. Sex and orientations toward winning in sport. Research Quarterly, 1975, 46, 476-483.
10. Laosa, L. M., & Brophy, J. E. Effects of sex and birth order on sex-role development and intelligence among kindergarten children. Developmental Psychology, 1972, 6, 409-415.
11. McGuire, C. Sex role and community variability in test performance. Journal of Educational Psychology, 1961, 52, 61-73.
12. Nash, S. C. The relationship among sex-role stereotyping, sex-role preference, and the sex difference. Sex Roles, 1975, 1, 15-32.
13. Nielsen, J. M., & Doyle, P. T. Sex-role stereotypes of feminists and nonfeminists. Sex Roles, 1975, 1, 83-95.
14. Zanna, M. P., & Pack, S. J. On the self-fulfilling nature of apparent sex differences in behavior. Journal of Experimental Social Psychology, 1975, 11, 583-591.

#### D. AGGRESSION/PERSONAL SPACE

1. Aiello, J. R. Move over— How overcrowding affects the young and old. Behavior Today, 1976, 7 (18), 2-3.
2. Atkinson, C., & Polivy, J. Effects of delay, attack, and retaliation on state depression and hostility. Journal of Abnormal Psychology, 1976, 85, 570-576.
3. Buchanan, D. R., Juhnke, R., & Goldman, M. Violation of personal space as a function of sex. Journal of Social Psychology, 1976, 99, 187-192.
4. Edwards, D. J. A. Perception of crowding and personal space as a function of locus of control, arousal seeking, sex of experimenter, and sex of subject. Journal of Psychology, 1977, 95, 223-229.
5. Harris, M. B. Mediators between frustration and aggression in a field experiment. Journal of Experimental Social Psychology, 1974, 10, 561-571.
6. Lando, H. A. Sex differences in response to differing patterns of attack. Personality and Social Psychology Bulletin, 1976, 2, 286-289.
7. Rohner, R. P. Sex differences in aggression: Phylogenetic and enculturation perspectives. Ethnos, 1976, 4, 57-72.
8. Rohner, R. P. World-wide analysis of human aggression shows sex differences. Behavior Today, 1976, 7 (19), 4-5.

## V. WOMEN IN NON-TRADITIONAL OCCUPATIONS

#### A. GENERAL BACKGROUND: PSYCHOLOGY OF WOMEN

1. Baer, H. R., & Sherif, C. W. A topical bibliography (selectively annotated) on psychology of women. JSAS Catalog of Selected Documents in Psychology, 1974, 4, 42. (Ms. No. 614)
2. Bardwick, J. M. Psychology of women. New York: Harper & Row, 1971.
3. Farber, S. M., & Wilson, R. H. L. (Ed.). Man and civilization: The potential of women. San Francisco: McGraw-Hill Book Company, Inc., 1963.
4. Greenglass, E. R. Women: A new psychological view. Ontario Psychologist, 1973, 5, 7-15.
5. Shields, S. A. Functionalism, Darwinism, and the psychology of women. American Psychologist, 1975, 30, 739-754.

#### B. WOMEN AND WORK

1. Anderson, M. Some health aspects of putting women to work in war industries. Paper presented at the 7th Annual Meeting of the Industrial Hygiene Foundation, 1941.
2. Fuss, Dr. Women's work. In Correspondance Committee on Industrial Hygiene (Ed.), Occupation and health. Geneva, Switzerland: International Labour Office, 1930-1934 (No. 152).
3. Gafafer, W. M. Absenteeism. In Manual of industrial hygiene and medical service in war industries. Philadelphia: W. B. Saunders Co., 1943.
4. Golderg, P. Are women prejudiced against women? Transaction, 1968, 6, 28-30.
5. Less, M., Eickelberg, W. W., & Palgi, S. Effects of work surface angles on productive efficiency of females on simple manual tasks. Perceptual and Motor Skills, 1973, 36, 431-436.
6. Matteson, M. T. Attitudes toward women as managers: Sex or role differences? Psychological Reports, 1976, 39, 166.
7. Nieva, V. F., & Gutek, B. A. Women and work: A bibliography of psychological research. JSAS Catalog of Selected Documents in Psychology, 1976, 6, 50. (Ms. No. 1257)
8. Rodbard, S., & Weiss, B. Performance and discomfort during ischaemic accustomed exercise (typing). Ergonomics, 1977, 20, 535-541.
9. Soto, D. H., & Cole, C. Prejudice against women: A new perspective. Sex Roles, 1975, 1, 385-393.
10. Wardle, M. G., & Glass, D. S. Women and strenuous work. Human Factors, 1977, 19, 515-517.



### C. WOMEN AND DEFENSE

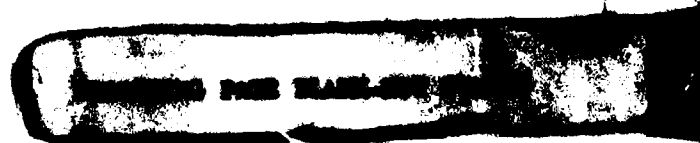
1. Binkin, M., & Bach, S. J. Women and the military (Studies in defense policy). Washington, DC: The Brookings Institution, 1977.
2. Bolalek, P. J., & Grumblatt, A. G., Jr. A study to determine the adequacy of the tools and equipment used by Air Force women in craft skills. Wright-Patterson Air Force Base, OH: Air Force Institute of Technology, January 1975. (AD/A-006 342)
3. Ducharme, R. E. Women workers rate "male" tools inadequate. Human Factors Society Bulletin, 1977, 20(4), 1-2.
4. Keenan, K. M. Reasons for joining and early termination of service in WRAC (Report APRE No. 24/ 75). Farnborough, England: Ministry of Defense, Army Personnel Research Establishment, March 1976.
5. Kinzer, N. S. Historical and cross-cultural perspectives on women in combat. Paper presented at the Army Science Conference, US Military Academy at West Point, NY, June 22-25, 1976.
6. Larwood, L., Glasser, E., & McDonald, R. Attitudes of male and female cadets toward military sex integration. Sex Roles, 1978, in press.
7. Leibst, M. D. Women in the Soviet armed forces (DDI-1100-109-76). Washington, DC: Defense Intelligence Agency, February 1976.
8. McEwen, D. D. Women at West Point. Soldiers, June 1976, 28-31.
9. Revell, J. E. Wacs in combat. The Times Magazine, February 9, 1976, 11-14; 16.
10. Segal, D. R., Kinzer, N. S., & Woelfel, J. C. The concept of citizenship and attitudes toward women in combat. Sex Roles, 1977, 3, 469-477.
11. Vitola, B. M., Mullins, C. J., & Weeks, L. Characteristics of women in the Air Force: 1970 through 1973 (Tech. Rep. No. 74-59). Brooks Air Force Base, TX: Air Force Human Resources Laboratory, July 1974. (AD/A-000 049)
12. Women in combat (A selected bibliography). Washington, DC: The Army Library, Room 1A518, The Pentagon, January 1976.
13. Women in defense. Commanders Digest, July 10, 1975, (Whole issue).

#### D. WOMEN AND SPORTS/STRENGTH

1. Brown, C. H., & Wilmore, J. H. The effect of maximal resistance training on the strength and body composition of women athletes. Medicine and Science in Sports, 1974, 6, 174-177.
2. Daniels, J., Krahenbuhl, G., Foster, C., Gilbert, J., & Daniels, S. Aerobic responses of female distance runners to submaximal and maximal exercise. In P. Milvy (Ed.), The Marathon: Physiological, medical, epidemiological and psychological studies. New York: New York Academy of Sciences, 1977.
3. Drinkwater, B. L. Physiological responses of women to exercise. In J. H. Wilmore (Ed.), Exercise and sports sciences reviews (Vol. I). New York: Academic Press, Inc., 1973.
4. Drinkwater, B. L., Kupprat, I. C., Denton, J. E., & Horvath, S. M. Heat tolerance of female distance runners. In P. Milvy (Ed.), The Marathon: Physiological, medical, epidemiological and psychological studies. New York: New York Academy of Sciences, 1977.
5. Harris, D. V., & Jennings, S. E. Self-perceptions of female distance runners. In P. Milvy (Ed.), The Marathon: Physiological, medical, epidemiological and psychological studies. New York: New York Academy of Sciences, 1977.
6. Kane, C. Why can't a woman throw more like a man? Ms., April 1976, 88-89; 106.
7. Kuscsik, N. The history of women's participation in the marathon. In P. Milvy (Ed.), The Marathon: Physiological, medical, epidemiological and psychological studies. New York: New York Academy of Sciences, 1977.
8. Leeper, R. C., Hasbrook, H. A., & Purswell, J. L. Study of control force limits for female pilots (FAA-AM-73-23). Washington, DC: Department of Transportation, Federal Aviation Administration, Office of Aviation Medicine, December 1973. (AD 777 839)
9. Little, M. J. Observations on the flexed-arm hang test for women. Perceptual and Motor Skills, 1973, 36, 761-762.
10. Nordgren, B. Anthropometric measures and muscle strength in young women. Scandinavian Journal of Rehabilitation Medicine, 1972, 4, 165-169.
11. Scott, A. C. Closing the muscle gap. Ms., September 1974, 49-50; 55; 89.
12. Snook, S. H., & Ciriello, V. M. Maximum weights and work loads acceptable to female workers. Journal of Occupational Medicine, 1974, 16, 527-534.
13. Torg, B. G., & Torg, J. S. Sex and the Little League. The Physician and Sportsmedicine, 1974, 2, 45-50.
14. Wilmore, J. H. Inferiority of female athletes: Myth or reality. Journal of Sports Medicine, 1975, 3, 1-6.
15. Wilmore, J. H., & Brown, C. H. Physiological profiles of women distance runners. Medicine and Science in Sports, 1974, 6, 178-181.

16. Wilmore, J. H., Brown, C. H., & Davis, J. A. Body physique and composition of the female distance runner. In P. Milvy (Ed.), The Marathon: Physiological, medical, epidemiological and psychological studies. New York: New York Academy of Sciences, 1977.

## VI. PSYCHOPHYSIOLOGY OF THE MENSTRUAL CYCLE



## A. GENERAL BACKGROUND

1. Auger, J. A. R. A psychophysiological study of the normal menstrual cycle and of some possible effects of oral contraceptives (Doctoral dissertation, University of California, Los Angeles, 1967). Dissertation Abstracts, 1967, 28, 3070B-3071B. (University Microfilms No. 67-17356)
2. Bell, B., Christie, M. J., & Venables, P. H. Psychophysiology of the menstrual cycle. In P. H. Venables & M. J. Christie (Eds.), Research in psychophysiology. London: Wiley, 1975.
3. DeMarchi, W. G. Psychophysiological aspects of the menstrual cycle. Journal of Psychosomatic Research, 1976, 20, 279-287.
4. Seward, G. H. The female sex rhythm. Psychological Bulletin, 1934, 31, 153-192.

## B. HORMONAL/OTHER SYSTEMIC CORRELATES

1. Abplanalp, J. M., Livingston, L., Rose, R. M., & Sandwisch, D. Cortisol and growth hormone responses to psychological stress during the menstrual cycle. Psychosomatic Medicine, 1977, 39, 158-177.
2. Aedo, A., Landgren, B., Cekan, Z., & Diczfalusy, E. Studies on the pattern of circulating steroids in the normal menstrual cycle. Acta Endocrinologica, 1976, 82, 600-616.
3. Belmaker, R. H., Murphy, D. L., Wyatt, R. J., & Loiaux, D. L. Human platelet monoamine oxidase changes during the menstrual cycle. Archives of General Psychiatry, 1974, 31, 553-556.
4. Cargille, C. M., Ross, G. T., & Yoshimi, T. Daily variations in plasma follicle stimulating hormone, luteinizing hormone and progesterone in the normal menstrual cycle. Journal of Clinical Endocrinology and Metabolism, 1969, 29, 12-19.
5. Chatteraj, S. C., Rankin, J. S., Turner, A. K., & Love, E. W. Urinary progesterone as an index of ovulation and corpus luteal function. Journal of Clinical Endocrinology and Metabolism, 1976, 43, 1402-1405.
6. Dmowski, W. P., Luna, M., & Scommegna, A. Hormonal aspects of female sexual response. Medical Aspects of Human Sexuality, 1974, 8, 92-113.
7. Franchimont, P., Dourcy, C., Legros, J. J., Reuter, A., Vrindto-Gevaert, Y., Van Cauwenberg, J. R., & Gaspard, J. Prolactin levels during the menstrual cycle. Clinical Endocrinology, 1976, 5, 643-650.
8. Gray, M. J., Strausfeld, K. S., Watanabe, M., Sims, E. A. H., & Solomon, S. Aldosterone secretory rates in the normal menstrual cycle. Journal of Clinical Endocrinology, 1968, 28, 1269-1275.
9. Jänne, O., Kontula, K., & Vihko, R. Review article: Mechanism of action of female sex steroids. Acta Obstetrica et Gynecologica Scandinavica, 1975, Supplement 51, 29-45.

10. Johansson, E. D. B., & Wide, L. Periovulatory levels of plasma progesterone and luteinizing hormone in women. Acta Endocrinologica, 1969, 62, 82-88.
11. Johansson, E. D. B., Wide, L., & Gemsell, C. Luteinizing hormone (LH) and progesterone in plasma and LH and estrogens in urine during 42 normal menstrual cycles. Acta Endocrinologica, 1971, 68, 502-512.
12. Jordan, V. C., & Pokoly, T. B. Steroid and prostaglandin relations during the menstrual cycle. Obstetrics and Gynecology, 1977, 49, 449-453.
13. Judd, H. L., & Yen, S. S. C. Serum androstenedione and testosterone levels during the menstrual cycle. Journal of Clinical Endocrinology and Metabolism, 1973, 36, 475-481.
14. Lamprecht, F., Matta, R. J., Little, B., & Zahn, T. P. Plasma dopamine - beta-hydroxylase (DBH) activity during the menstrual cycle. Psychosomatic Medicine, 1974, 36, 304-310.
15. MacKinnon, P. C. B. Variations in the number of active palmar digital sweat glands during the human menstrual cycle. Journal of Obstetrics and Gynecology of the British Empire, 1954, 61, 390-393.
16. MacKinnon, P. C. B., & Harrison, J. The influence of hormones associated with pituitary, adrenal, and sexual cycle activity on palmar sweating. Journal of Endocrinology, 1961, 23, 217-225.
17. Marinari, K. T., Leshner, A. I., & Doyle, M. P. Menstrual cycle status and adrenocortical reactivity to psychological stress. Psychoneuroendocrinology, 1976, 1, 213-218.
18. McNeilly, A. S., & Chard, T. Circulating levels of prolactin during the menstrual cycle. Clinical Endocrinology, 1974, 3, 105-112.
19. Michael, R. P., Bonsall, R. W., & Kutner, M. Volatile fatty acids, "copulins", in human vaginal secretions. Psychoneuroendocrinology, 1975, 1, 153-163.
20. Michael, R. P., Bonsall, R. W., & Worner, P. Human vaginal secretions: Volatile fatty acid content. Science, 1974, 186, 1217-1219.
21. Midgely, A. R., Jr., & Jaffe, R. B. Regulation of human gonadotropins. X. Episodic fluctuation of LH during the menstrual cycle. Journal of Clinical Endocrinology and Metabolism, 1971, 33, 962-969.
22. Moghissi, K. S., Syner, F. N., & Evans, T. N. A composite picture of the menstrual cycle. Journal of Obstetrics and Gynecology, 1972, 114, 405-418.
23. Neill, J. D., Johansson, E. D. B., Datta, J. K., & Knobil, E. Relationship between the plasma levels of luteinizing hormone and progesterone during the normal menstrual cycle. Journal of Clinical Endocrinology, 1967, 27, 1167-1173.
24. Patkai, P., Johansson, G., & Post, B. Mood, alertness and sympathetic-adrenal medullary activity during the menstrual cycle. Psychosomatic Medicine, 1974, 36, 503-512.
25. Punnonen, R., Nummi, S., Ylikorkala, O., Alapiessa, U., Karvonen, P., & Viinikka, L. A composite picture of the normal menstrual cycle. Acta Obstetrica et Gynecologica Scandinavica, 1975, Supplement 51, 63-69.

26. Reich, M. The variations in urinary aldosterone levels in normal females during the menstrual cycle. Australian Annals of Medicine, 1962, 11, 41-49.
27. Ross, G. T., Cargille, C. M., Lipset, M. B., Rayford, P. L., Marshall, J. R., Strott, C. A., & Rodbard, D. Pituitary and gonadal hormones in women during spontaneous and induced ovulatory cycles. Recent Progress in Hormone Research, 1970, 26, 1-62.
28. Salhanick, H. A., Kipnis, D. M., & Vande Wiele, R. L. (Eds.), Metabolic effects of gonadal hormones and contraceptive steroids. New York: Plenum Press, 1969.
29. Somerville, B. W. Daily variation in plasma levels of progesterone and estradiol throughout the menstrual cycle. American Journal of Obstetrics and Gynecology, 1971, 111, 419-426.
30. Southam, A. L., & Gonzaga, F. P. Systemic changes during the menstrual cycle. American Journal of Obstetrics and Gynecology, 1965, 91, 142-165.
31. Strausfeld, K., Gray, M. D., Solomon, S., & Sims, E. A. H. Variations in aldosterone secretory rates in the normal menstrual cycle. Obstetrics and Gynecology, 1964, 23, 631.
32. Svanborg, A., & Vikrot, O. Plasma lipids during the menstrual cycle. Acta Medica Scandinavica, 1967, 181, 93-96.
33. Vande Wiele, R. L., Bogumil, J., Dyrenfurth, I., Ferin, M., Jewelewicz, R., Warren, M., Rizkallah, T., & Mikhail, G. Mechanisms regulating the menstrual cycle in women. Recent Progress in Hormone Research, 1970, 26, 63-103.
34. Vermeulen, A., & Verdonck, L. Plasma androgen levels during the menstrual cycle. Obstetrics and Gynecology, 1976, 125, 491-494.
35. Wineman, E. W. Autonomic balance changes during the human menstrual cycle. Psychophysiology, 1971, 8, 1-6.
36. Winer, B. M. Renin in pregnancy and the menstrual cycle. Journal of Clinical Investigation, 1965, 44, 1112.
37. Wu, C. -H., Motohashi, T., Abdel-Rahman, H. A., Flickinger, G. L., & Mikhail, G. Free and protein bound plasma estradiol - 17 Beta during the menstrual cycle. Journal of Clinical Endocrinology and Metabolism, 1976, 43, 436-445.
38. Yen, S. S. C., Vela, P., Rankin, J., & Littell, A. S. Hormonal relationships during the menstrual cycle. Journal of the American Medical Association, 1970, 211, 1513-1517.

### C. CYCLE LENGTH/REGULARITY

1. Arey, L. B. The degree of normal menstrual irregularity. American Journal of Obstetrics and Gynecology, 1939, 37, 12-29.
2. Chern, M.-F. M. Inheritance of menstrual traits (Doctoral dissertation, University of Minnesota, 1973). Dissertation Abstracts International, 1974, 34, 5343B. (University Microfilms No. 74-10494)
3. Damon, A., & Bajema, C. J. Age at menarche: Accuracy of recall after thirty-nine years. Human Biology, 1974, 46, 381-384.
4. Engle, E. T., & Shelesnyak, M. C. First menstruation and subsequent menstrual cycles of pubertal girls. Human Biology, 1934, 6, 431-453.
5. Fluhmann, C. F. The length of the human menstrual cycle. American Journal of Obstetrics and Gynecology, 1934, 27, 73-78.
6. Gunn, D. L., Jenkin, P. M., & Gunn, A. L. Menstrual periodicity; Statistical observations on a large sample of normal cases. Journal of Obstetrics and Gynecology of the British Empire, 1937, 44, 839-879.
7. Haman, J. O. Length of cycle in 150 normal women. American Journal of Obstetrics and Gynecology, 1942, 43, 870-873.
8. Matsumoto, S., Nogami, Y., & Ohkuri, S. Statistical studies on menstruation: A criticism on the definition of normal menstruation. Gunma Journal of Medical Science, 1962, 11, 294-318.
9. Peskin, H. The duration of normal menses as a psychosomatic phenomenon. Psychosomatic Medicine, 1968, 30, 378-389.
10. Speroff, L., & Vande Wiele, R. L. Regulation of the human menstrual cycle. American Journal of Obstetrics and Gynecology, 1971, 109, 234-247.
11. Thompson, C. T. Influence of developmental age on menstrual cycle disruption among women entering college (Doctoral dissertation, University of Pittsburgh, 1973). Dissertation Abstracts International, 1974, 34, 4469B. (University Microfilms No. 74-6780)
12. Widholm, O., & Kantero, R. L. A statistical analysis of the menstrual patterns of 8000 Finnish girls and their mothers. Acta Obstetrica et Gynecologica Scandinavica, 1971, Supplement 50, 1-36.



#### D. MENSTRUAL SYNCHRONY

1. McClintock, M. K. Menstrual synchrony and suppression. Nature, 1971, 229, 244-245.
2. Russell, M. J. Olfactory synchrony of menstrual cycles. Science News, 1977, 112, 5.

#### E. CYTOLOGY/DETERMINATION OF OVULATION

1. Buxton, C. L., & Engle, E. T. Time of ovulation: A correlation between basal temperature, the appearance of the endometrium and the appearance of the ovary. American Journal of Obstetrics and Gynecology, 1950, 60, 539-551.
2. Carron, M. C. [The Vargus-Rivoire Test in the diagnosis of ovulation.] (SCITRAN, Trans.) Comptes Rendus de la Société Française de Gynécologie, 1956, 26, 439-442.
3. Hartman, C. G. Time of ovulation in women. Baltimore: The Williams and Wilkins Company, 1936.
4. Henderson, I. D. Squamous cells of the upper alimentary tract and the menstrual cycle. Journal of Anatomy, 1950, 84, 404-405.
5. Iusem, R. A cytology study of the cornification of the oral mucosa in women. Oral Surgery, Oral Medicine, and Oral Pathology, 1950, 3, 1516-1520.
6. Orban, B. Clinical and histological study of the surface characteristics of the gingiva. Oral Surgery, Oral Medicine, and Oral Pathology, 1948, 1, 827-841.
7. Papanicolaou, G. N. The sexual cycle in the human female as revealed by vaginal smears. American Journal of Anatomy, 1933, 52 (3, Suppl. ), 519-637.
8. Papic, M., & Glickman, I. Keratinization of the human gingiva in the menstrual cycle and menopause. Oral Surgery, Oral Medicine, and Oral Pathology, 1950, 3, 504-516.
9. Salvatierra, V., & Romero, J. [Buccal cytology during the menstrual cycle.] (SCITRAN, Trans.), Acta Ginecologica, 1956, 7, 134-139.
10. Shorr, E. A new technique for staining vaginal smears. Science, 1940, 91, 579.
11. Weinmann, J. The keratinization of the human oral mucosa. Journal of Dental Research, 1940, 19, 57-71.
12. Witt, V. H. J. [Cyclic variations of the nuclei of female buccal epithelium smears.] (SCITRAN, Trans.), Zentralblatt fuer Gynaekologie, 1961, 83, 1589-1596.
13. Ziskin, D. E. The effect of hormonal treatment on the gums and oral mucosa of women. Journal of Dental Research, 1937, 16, 367-378.
14. Ziskin, D. E., & Moulton, R. A. A comparison of oral and vaginal epithelial smears. Journal of Clinical Endocrinology, 1948, 8, 146-165.

## F. SYMPTOMOLOGY AND DISTRESS

1. Abramson, M., & Torghele, J. R. Weight, temperature changes, and psychosomatic symptomology in relation to the menstrual cycle. American Journal of Obstetrics and Gynecology, 1961, 81, 223-232.
2. Beumont, P. J., Richards, D. H., & Gelder, M. G. A study of minor psychiatric and physical symptoms during the menstrual cycle. British Journal of Psychiatry, 1975, 126, 431-434.
3. Golub, L. J., Menduke, H., & Conley, S. S. Weight changes in college women during the menstrual cycle. American Journal of Obstetrics and Gynecology, 1965, 91, 89-94.
4. Gough, H. G. Personality factors related to reported severity of menstrual distress. Journal of Abnormal Psychology, 1975, 84, 57-65.
5. Hain, J. D., Linton, P. H., Eber, H. W., & Chapman, M. M. Menstrual irregularity, symptoms, and personality. Journal of Psychosomatic Research, 1970, 14, 81-87.
6. Hamburg, D. A., Moos, R. H., & Yalom, I. D. Studies of distress in the menstrual cycle and the postpartum period. In R. P. Michael (Ed.), Endocrinology and Human Behavior. London: Oxford University Press, 1968.
7. Hudgins, A. P. Cyclic discomfort or dysmenorrhea? West Virginia Medical Journal, 1941, 37, 199-203.
8. Kessel, N., & Coppen, A. The prevalence of common menstrual symptoms. Lancet, 1963, 2, 61-64.
9. Markum, R. A. Assessment of the reliability of and the effect of neutral instructions on the symptom ratings on the Moos Menstrual Distress Questionnaire. Psychosomatic Medicine, 1976, 38, 163-172.
10. Moos, R. H. The development of a menstrual distress questionnaire. Psychosomatic Medicine, 1968, 30, 853-867.
11. Moos, R. H. Menstrual distress questionnaire preliminary manual. Stranford, CA: Social Ecology Laboratory, Department of Psychiatry, Stanford University, June 1969.
12. Moos, R. H. A typology of menstrual cycle symptoms. American Journal of Obstetrics and Gynecology, 1969, 103, 390-402.
13. Moos, R. H., Kopell, B. S., Melges, F. T., Yalom, I. D., Lunde, D. T., Clayton, R. B., & Hamburg, D. A. Fluctuations in symptoms and moods during the menstrual cycle.. Journal of Psychosomatic Research, 1969, 13, 37-44.
14. Parlee, M. B. Stereotypic beliefs about menstruation: A methodological note on the Moos Menstrual Distress Questionnaire and some new data. Psychosomatic Medicine, 1974, 36, 229-240.
15. Sampson, G. A., & Fenner, F. A. Studies of daily recordings from the Moos Menstrual Distress Questionnaire. British Journal of Psychiatry, 1977, 130, 265-271.

16. Sheldrake, P., & Cormack, M. Variations in menstrual cycle symptom reporting. Journal of Psychosomatic Research, 1976, 20, 169-177.
17. Silbergeld, S., Brast, N., & Nobel, E. P. The menstrual cycle: A double-blind study of symptoms, mood and behavior, and biochemical variables using Enovid and placebo. Psychosomatic Medicine, 1971, 33, 411-428.
18. Watson, P. E., & Robinson, M. Variations in body weight of young women during the menstrual cycle. British Journal of Nutrition, 1965, 19, 237-248.
19. Wilcoxon, L. A., Schrader, S. L., & Sherif, C. W. Daily self-reports on activities, life events, moods, and somatic changes during the menstrual cycle. Psychosomatic Medicine, 1976, 38, 399-417.

#### G. THE PRE-MENSTRUAL SYNDROME

1. Appleby, B. P. A study of pre-menstrual tension in general practice. British Medical Journal, 1960, 1, 391-393.
2. Beck, A. C. Chronological fluctuations of six premenstrual tension variables and their relation to traditional - modern sex role stereotypes. (Doctoral dissertation, Purdue University, 1970). Dissertation Abstracts International, 1971, 31, 4980B. (University Microfilms No. 71-2558)
3. Bruce, J., & Russel, G. F. M. Premenstrual tension. A study of weight changes and balances of water, sodium and potassium. Lancet, 1962, 2, 267-271.
4. Dorshav, N. K. In search of pre-menstrual tension - Note on sex differences in psychological differentiation as a function of cyclical physiological changes. Perceptual and Motor Skills, 1976, 42, 1139-1142.
5. Frank, R. T. The hormonal causes of pre-menstrual tension. Archives of Neurology and Psychiatry, 1931, 26, 1053-1057.
6. Golub, S. The effect of premenstrual anxiety and depression on cognitive function. Journal of Personality and Social Psychology, 1976, 34, 99-104.
7. Golub, S. The magnitude of premenstrual anxiety and depression. Psychosomatic Medicine, 1976, 38, 4-12.
8. Janowsky, D. S., Berens, S. C., & Davis, J. M. Correlations between mood, weight, and electrolytes during the menstrual cycle: A renin-angiotensin-aldosterone hypothesis of premenstrual tension. Psychosomatic Medicine, 1973, 35, 143-154.
9. Lamb, W. M., Ulett, G. A., Masters, W. H., & Robinson, D. W. Premenstrual tension: EEG, hormonal, and psychiatric evaluation. American Journal of Psychiatry, 1953, 109, 840-848.
10. Parlee, M. B. The premenstrual syndrome. Psychological Bulletin, 1973, 80, 454-465.

11. Pennington, V. M. Meproboamate (Miltown) in premenstrual tension. Journal of the American Medical Association, 1957, 6, 638-640.
12. Reeves, B. D., Garvin, J. E., & McElin, T. W. Premenstrual tension, symptoms, and weight changes. American Journal of Obstetrics and Gynecology, 1971, 109, 1036-1041.
13. Ruble, D. N. Premenstrual symptoms: A reinterpretation. Science, 1977, 197, 291-292.
14. Seagull, E. A. W. An investigation of personality differences between women with high and low premenstrual tension (Doctoral dissertation, Michigan State University, 1973). Dissertation Abstracts International, 1974, 34, 4675B. (University Microfilms No. 74-6121)
15. Sutherland, H., & Stewart, I. A critical analysis of the premenstrual syndrome. Lancet, 1965, 1, 1180-1183.
16. Wiener, J. S., & Elmadjian, F. Excretion of epinephrine and norepinephrine in premenstrual tension. Federation Proceedings, 1962, 21, 184.

#### H. EFFECTS ON SENSATION AND PERCEPTION

1. Asso, D., & Beech, H. R. Susceptibility to the acquisition of a conditioned response in relation to the menstrual cycle. Journal of Psychosomatic Research, 1975, 19, 337-344.
2. Buzzelli, B., Voegelin, M. R., Procacci, P., & Bozza, G. [Changes in the cutaneous pain threshold during the menstrual cycle.] (SCITRAN, Trans.) Bullettino della Societa Italiana di Biologia Sperimentale, 1968, 44, 235-236.
3. Clare, G., Tong, J. E., Lyon, R. G., & Leigh, G. Menstrual cycle and ethanol effects on temporal discrimination. Perceptual and Motor Skills, 1976, 42, 1085-1086.
4. DeMarchi, G. W., & Tong, J. E. Menstrual, diurnal, and activation effects on the resolution of temporally paired flashes. Psychophysiology, 1972, 9, 362-367.
5. Diamond, M., Diamond, A., & Mast, M. Visual sensitivity and sexual arousal levels during the menstrual cycle. Journal of Nervous and Mental Disease, 1972, 155, 170-176.
6. Diespecker, D. D., & Kolokotronis, E. Vibrotactile learning and the menstrual cycle. Perceptual and Motor Skills, 1971, 33, 233-234.
7. Doring, G. K., & Schaefer, E. [Changes in pupil dilation synchronized with the menstrual cycle.] (SCITRAN, Trans.) Archiv fuer Gynaekologie, 1951, 179, 585-593.
8. Doty, R. L., Ford, M., Preti, G., & Huggins, G. Changes in the intensity and pleasantness of human vaginal odors during the menstrual cycle. Science, 1975, 190, 1316-1318.
9. Fisher, S., & Richter, J. Selective effects of the menstrual experience upon aniseikonic body perception. Psychosomatic Medicine, 1969, 31, 365-371.
10. Glanville, E. V., & Kaplan, A. R. Taste perception and the menstrual cycle. Nature, 1965, 205, 930-931.

11. Herren, R. Y. The effect of high and low female sex hormone concentration on the two-point threshold of pain and touch and upon tactile sensitivity. Journal of Experimental Psychology, 1933, 16, 324-327.
12. Kahn, R. J. Sensory threshold fluctuations as a function of menstrual cycle phase (Doctoral dissertation, Yeshiva University, 1965). Dissertations Abstracts, 1965, 26, 3478. (University Microfilms No. 65-11980)
13. Kenshalo, D. R. Changes in the cool threshold associated with phases of the menstrual cycle. Journal of Applied Physiology, 1966, 21, 1031-1039.
14. Köster, E. P. Olfactory sensitivity and the menstrual cycle. International Rhinology, 1965, 3, 57-64.
15. Le Magnen, J. [Physiology of sensations.] (SCITRAN, Trans.) Comptes Rendus Hebdomadaires des Seances de l'Académie des Sciences, 1950, 230, 1103-1105.
16. Marshall, J. Thermal changes in the normal menstrual cycle. British Medical Journal, 1963, 1, 102-104.
17. Masmainian, M. A., & Vaskanian, D. S. Dynamics of organum olfactus threshold fluctuations depending on menstrual cycle. In The Organizing Committee of the XXth International Congress of Psychology (Eds.), Abstract Guide. XXth International Congress of Psychology. Tokyo: N. Sasaki Co., 1972.
18. Meixner, C. H. Changes in olfactory sensitivity during the menstrual cycle (Master's Thesis, Brown University, June 1955). [Available from Brown University Library, Prospect St., Providence, RI 02912]
19. Satinder, K. P., & Mastronardi, L. M. Sex differences in figural after-effects as a function of the phase of the menstrual cycle. Psychologia, 1974, 17, 1-5.
20. Semczuk, B., Przesmycka, S., & Pomykalski, M. [On the changes of acoustic sensitivity during the menstrual cycle.] (SCITRAN, Trans.) Polski Tygodnik Lekarski, 1967, 22, 586-588.
21. Seward, J. P., & Seward, G. H. The effect of repetition on reactions to electric shock, with special reference to the menstrual cycle. Archives of Psychology, 1934, No. 168.
22. Tedford, W. H., Warren, D. E., & Flynn, W. E. Alteration of shock aversion thresholds during the menstrual cycle. Perception and Psychophysics, 1977, 21, 193-196.
23. Tobias, J. V. Curious binaural phenomena. In J. V. Tobias (Ed.), Foundations of modern auditory theory (Vol. II). New York: Academic Press, 1972.
24. Vierling, J. S., & Rock, J. Variations in olfactory sensitivity to exaltolide during the menstrual cycle. Journal of Applied Physiology, 1967, 22, 311-315.
25. Wong, S., & Tong, T. E. Menstrual cycle and contraceptive hormonal effects on temporal discrimination. Perceptual and Motor Skills, 1974, 39, 103-108.

26. Wright, P., & Crow, R. A. Menstrual cycle: Effect on sweetness preferences in women. Hormones and Behavior, 1973, 4, 387-391.
27. Wynn, V. T. Absolute pitch: A bimensual rhythm. Nature, 1971, 230, 337.

#### I. EFFECTS ON EEG'S/EVOKED POTENTIALS

1. Barton, D. S. A study of temperature and electric potentials in the menstrual cycle. Yale Journal of Biology and Medicine, 1940, 12, 503-524.
2. Creutzfeldt, O. D., Arnold, P. M., Becker, D., Langenstein, S., Tirsch, W., Wilhelm, H., & Wuttke, W. EEG changes during spontaneous and controlled menstrual cycles and their correlation with psychological performance. Electroencephalography and Clinical Neurophysiology, 1976, 40, 113-131.
3. Dusser de Barenne, D., & Gibbs, F. A. Variations in the EEG during the menstrual cycle. American Journal of Obstetrics and Gynecology, 1942, 44, 687-690.
4. Gautray, J. P. Quantitative analysis of EEG variations during spontaneous or restored menstrual cycle. Neuroendocrinology, 1969, 5, 368-373.
5. Gautray, J. P., Garrel, S., & Eberard, A. Electroencephalographic correlates of the human menstrual cycle. I. Methodology. Acta Europea Fertilitatis, 1970, 2, 5-13.
6. Gautray, J. P., Garrel, S., & Fau, R. Electroencephalographic correlates of the human menstrual cycle. II. Results and discussion. Acta Europea Fertilitatis, 1970, 2, 15-24.
7. Kopell, B. S., Lunde, D. J., Clayton, R. B., & Moos, R. H. Variations in some measures of arousal during the menstrual cycle. Journal of Nervous and Mental Disease, 1969, 148, 180-187.
8. Margerison, J. H., Anderson, W. M. C., & Dawson, J. Plasma sodium and the EEG during the menstrual cycle of normal human females. Electroencephalography and Clinical Neurophysiology, 1964, 17, 540-544.
9. Pitot, M., & Gastaut, H. EEG changes during the menstrual cycle. Electroencephalography and Clinical Neurophysiology, 1954, 6, 162.
10. Snodgrass, J. M., Rock, J., & Menkin, M. F. The validity of ovulation potentials. American Journal of Physiology, 1943, 140, 394-415.
11. Vogel, W., Broverman, D. M., & Klaiber, E. L. EEG responses in regularly menstruating women and in amenorrheic women treated with ovarian hormones. Science, 1971, 172, 388-391.

## J. EFFECTS ON PSYCHOMOTOR PERFORMANCE/COGNITION

1. Anderson, E. I. Cognitive performance and mood change as they relate to menstrual cycle and estrogen level (Doctoral dissertation, Boston University Graduate School, 1972). Dissertation Abstracts International, 1972, 33, 1758B. (University Microfilms No. 72-25237)
2. Baisden, A. G., & Gibson, R. S. Effects of the menstrual cycle on the performance of complex perceptual-psychomotor tasks. In R. N. Hale, R. A. McKnight, & J. R. Moss (Eds.), Proceedings of the Human Factors Society, 19th Annual Meeting, Santa Monica, CA: The Human Factors Society, Inc., 1975.
3. Bernstein, B. E. The relationship between menstruation and academic performance in high- and low-motivated students (Doctoral dissertation, University of Maryland, 1973). Dissertation Abstracts International, 1974, 34, 7035A. (University Microfilms No. 74-9780)
4. Billings, E. G. The occurrence of cyclic variations in motor activity in relation to the menstrual cycle in the human female. Johns Hopkins Hospital Bulletin, 1939, 54, 440-454.
5. Lederman, M. Menstrual cycle and fluctuation in cognitive-perceptual performance (Doctoral dissertation, Boston University Graduate School, 1974). Dissertation Abstracts International, 1974, 35, 1388B-1389B. (University Microfilms No. 74-20392)
6. Loucks, J., & Thompson, H. Effect of menstruation on reaction time. Research Quarterly, 1968, 39, 407-408.
7. Lough, O. M. The effect of functional periodicity on the learning process. Journal of Genetic Psychology, 1937, 50, 307-322.
8. Morris, N. M., & Udry, J. R. Variations in pedometer activity during the menstrual cycle. Obstetrics and Gynecology, 1970, 35, 199-201.
9. Pierson, W. R., & Lockhart, A. Effect of menstruation on simple reaction and movement time. British Medical Journal, 1963, 1, 796-797.
10. Sommer, B. Menstrual cycle changes and intellectual performance. Psychosomatic Medicine, 1972, 34, 263-269.
11. Sommer, B. The effect of menstruation on cognitive and perceptual-motor behavior: A review. Psychosomatic Medicine, 1973, 35, 515-534.
12. Sowton, S. C. M., & Myers, C. S. The influence of the menstrual cycle on mental and muscular efficiency. In Great Britain Industrial Health Research Board (Ed.), Report of the Medical Council of the Industrial Research Board, 1928, No. 45, 1-42.
13. Stocker, J. M. Motor performance and state anxiety at selected stages of the menstrual cycle (Doctoral dissertation, Temple University, 1973). Dissertation Abstracts International, 1974, 34, 3971A-3972A. (University Microfilms No. 73-23366)
14. Wickham, M. The effects of the menstrual cycle on test performance. British Journal of Psychology, 1958, 49, 34-41.

## K. EFFECTS ON MOOD/PERSONALITY

1. Balint, M. A contribution to the psychology of menstruation. Psychoanalytic Quarterly, 1937, 6, 346-352.
2. Bell, B. Self-reported activation during the premenstrual and menstrual phases of the menstrual cycle. Journal of Interdisciplinary Cycle Research, 1976, 7, 193-201.
3. Benedek, T. An investigation of the sexual cycle in women: Methodologic considerations. Archives of General Psychiatry, 1963, 8, 311-322.
4. Benedek, T., & Rubenstein, B. The correlations between ovarian activity and psychodynamic processes. I. The ovulatory phase. II. The menstrual phase. Psychosomatic Medicine, 1939, 1, 245-270; 461-485.
5. Benedek, T., & Rubenstein, B. The sexual cycle in women. Washington, DC: National Research Council, 1942.
6. Birtchnell, J., & Floyd, S. Attempted suicide and the menstrual cycle: A negative conclusion. Journal of Psychosomatic Research, 1974, 18, 361-369.
7. Coppen, A., & Kessel, N. Menstruation and personality. British Journal of Psychiatry, 1963, 109, 711-721.
8. Diamond, S. B., Rubinstein, A. A., Dunner, D. L., & Fieve, R. R. Menstrual problems in women with primary affective illness. Comprehensive Psychiatry, 1976, 17, 541-548.
9. Gottschalk, L. A., Kaplan, S. M., Gleser, G. C., & Winget, C. M. Variations in magnitude of emotion: A method applied to anxiety and hostility during phases of the menstrual cycle. Psychosomatic Medicine, 1962, 24, 300-311.
10. Griffith, M., & Walker, C. Menstrual cycle phases and personality variables as related to response to erotic stimuli. Archives of Sexual Behavior, 1975, 4, 599-603.
11. Ivey, M. E., & Bardwick, J. M. Patterns of affective fluctuation in the menstrual cycle. Psychosomatic Medicine, 1968, 30, 336-345.
12. Janowsky, D. S., Horney, R., & Mandell, A. J. The menstrual cycle. Archives of General Psychiatry, 1967, 17, 459-469.
13. Landers, A. D. A longitudinal investigation of clinical concomitants of the menstrual cycle (Doctoral dissertation, Michigan State University, 1973). Dissertation Abstracts International, 1973, 34, 1278B. (University Microfilms No. 73-20365)
14. Levitt, E. E., & Lubin, B. Some personality factors associated with menstrual attitudes. Journal of Psychosomatic Research, 1967, 11, 267-270.
15. Little, B. C., & Zahn, J. P. Changes in mood and autonomic functioning during the menstrual cycle. Psychophysiology, 1974, 11, 579-590.
16. Lough, O. M. A psychological study of functional periodicity. Journal of Comparative Psychology, 1937, 24, 359-368.



17. May, R. R. Mood shifts and the menstrual cycle. Journal of Psychosomatic Research, 1976, 20, 125-130.
18. McKenna, W. B. The menstrual cycle, motivation, and performance (Doctoral dissertation, City University of New York, 1974). Dissertation Abstracts International, 1974, 35, 1391B. (University Microfilms No. 74-20355)
19. Paige, K. E. Women learn to sing the menstrual blues. Psychology Today, September 1973, 41-46.
20. Patty, R. A., & Ferrell, M. M. A preliminary note on the motive to avoid success and the menstrual cycle. Journal of Psychology, 1974, 36, 173-177.
21. Reynolds, E. Variations of mood and recall in the menstrual cycle. Journal of Psychosomatic Research, 1969, 13, 163-166.
22. Richman, C. L., Patty, R. A., & Fisher, T. D. Mind-body revisited: Every 28 days. Psychological Reports, 1976, 39, 1311-1314.
23. Rodin, J. Menstruation, reattribution, and competence. Journal of Personality and Social Psychology, 1976, 33, 345-353.
24. Schonberg, W. B., Costanzo, D. J., & Carpenter, R. S. Menstrual cycle: Phases and reaction to frustration. Psychological Record, 1976, 26, 321-325.
25. Shainess, N. A re-evaluation of some aspects of femininity through a study of menstruation: A preliminary report. Comprehensive Psychiatry, 1961, 2, 20-26.
26. Wetzel, R. D., & McClure, J. N. Suicide and the menstrual cycle: A review. Comprehensive Psychiatry, 1972, 13, 369-374.

#### L. EFFECTS ON BEHAVIOR

1. Bäckström, T. Epileptic seizures in women related to plasma estrogen and progesterone during the menstrual cycle. Acta Neurologica Scandinavica, 1976, 54, 321-347.
2. Bedale, E. M. The relation of the menstrual cycle to general functional activity. In Great Britain Industrial Health Research Board (Ed.), Report of the Medical Research Council of the Industrial Research Board, 1928, No. 45, 43-63.
3. Cameron, R. G. Effect of flying on the menstrual function of air hostesses. Aerospace Medicine, 1969, 40, 1020-1023.
4. Cohen, D. B. Failure to recall dream content: Contentless vs. dreamless reports. Perceptual and Motor Skills, 1972, 34, 1000-1002.
5. Dalton, K. Effect of menstruation on schoolgirls' weekly work. British Medical Journal, 1960, 1, 326-328.

6. Dalton, K. Menstruation and accidents. British Medical Journal, 1960, 2, 1425-1426.
7. Dalton, K. Influence of menstruation on health and disease. Proceedings of the Royal Society of Medicine, 1964, 57, 262-264.
8. Dalton, K. Menstruation and examinations. Lancet, 1968, 2, 1386-1388.
9. Doty, R. L., & Silverthorne, C. Influence of the menstrual cycle on volunteering behavior. Nature, 1975, 254, 139-140.
10. Hamburg, D. A. Effects of progesterone on behavior. Research Publications, Association for Research in Nervous and Mental Disease, 1966, 43, 251-265.
11. Harris, D. V. The monthly mystery. womenSports, July 1977, 49.
12. Hartmann, E. Dreaming sleep (the D-state) and the menstrual cycle. Journal of Nervous and Mental Disease, 1966, 143, 406-416.
13. Ho, M. A. Sex hormones and the sleep of women (Doctoral dissertation, Yeshiva University, 1972). Dissertation Abstracts International, 1972, 33, 1305B. (University Microfilms No. 72-23572)
14. Komnenich, P. Hormonal influences on verbal behavior in women (Doctoral dissertation, University of Arizona, 1974). Dissertation Abstracts International, 1974, 35, 3065B. (University Microfilms No. 74-28306)
15. Liskey, N. E. Accidents: Rhythmic threat to females. Accident Analysis and Prevention, 1972, 4, 1-11.
16. Logothetis, J., Harnes, R., Morrell, F., & Torres, F. The role of estrogens in catamenial exacerbation of epilepsy. Neurology, 1959, 9, 352-360.
17. MacKinnon, I. L., MacKinnon, P. C. B., & Thompson, A. D. Lethal hazards of the luteal phase of the menstrual cycle. British Medical Journal, 1959, 1, 1015-1017.
18. MacKinnon, P. C. B., & MacKinnon, I. L. Hazards of the menstrual cycle. British Medical Journal, 1956, 1, 555.
19. McCullough, R. C. Rhythms of sexual desire and sexual activity in the human female (Doctoral dissertation, University of Oregon, 1973). Dissertation Abstracts International, 1974, 34, 4669B-4670B. (University Microfilms No. 74-6865)
20. Percival, E. Menstrual disturbances as they may affect women in industry. The Canadian Nurse, 1943, 39, 335-337.
21. Preston, F. S., Bateman, S. C., Short, R. V., & Wilkinson, R. T. Effects of flying and of time changes on menstrual cycle length and on performance in airline stewardesses. Aerospace Medicine, 1973, 44, 438-443.
22. Seward, G. H. Psychological effects of the menstrual cycle on women workers. Psychological Bulletin, 1944, 41, 90-102.

23. Sheldrake, P., & Cormack, M. Dream recall and the menstrual cycle. Journal of Psychosomatic Research, 1974, 18, 347-350.
24. Silverman, E.-M., Zimmer, C. H., & Silverman, F. H. Variability of stutterers' speech disfluency: The menstrual cycle. Perceptual and Motor Skills, 1974, 18, 1037-1038.
25. Silverman, E.-M., & Zimmer, C. H. Replication of "Speech fluency fluctuations during the menstrual cycle." Perceptual and Motor Skills, 1976, 42, 1004-1006.
26. Smith, A. J. Menstruation and industrial efficiency. I. Absenteeism and activity level. Journal of Applied Psychology, 1950, 34, 1-5.
27. Smith, A. J. Menstruation and industrial efficiency. II. Quality and quantity of production. Journal of Applied Psychology, 1950, 34, 148-152.
28. Udrey, J. R., & Morris, N. M. Distribution of coitus in the menstrual cycle. Nature, 1968, 200, 593-596.
29. Zimmerman, E., & Parlee, M. B. Behavioral changes associated with the menstrual cycle: An experimental investigation. Journal of Applied Social Psychology, 1973, 3, 335-344.

#### M. CORRELATES OF ORAL CONTRACEPTIVE USE

1. Bakker, C. B., & Dightman, C. Side effects of oral contraceptives. Obstetrics and Gynecology, 1966, 28, 373-379.
2. Durber, S. M., Lawson, J., & Daly, J. R. The effect of oral contraceptives on plasma cortisol and cortisol binding capacity throughout the menstrual cycle in normal women. British Journal of Obstetrics and Gynecology, 1976, 83, 814-818.
3. Glass, R., Johnson, B., & Vessey, M. Accuracy of recall of histories of oral contraceptive use. British Journal of Preventive and Social Medicine, 1974, 28, 273-275.
4. Glick, I. D. Mood and behavioral changes associated with the use of oral contraceptive agents: A review of the literature. Psychopharmacologia, 1967, 10, 363-374.
5. Herzberg, B., & Coppen, A. Changes in psychological symptoms in women taking oral contraceptives. British Journal of Psychiatry, 1970, 116, 161-164.
6. Kane, F. J., Jr. Evaluation of emotional reactions to oral contraceptive use. American Journal of Obstetrics & Gynecology, 1976, 126, 968-972.
7. Mills, T. M., Lin, T. J., Braselton, W. E., Ellegood, J. O., & Mahesh, V. B. Metabolism of oral contraceptive drugs. The formation and disappearance of metabolites of norethindrone and mestranol after intravenous and oral administration. American Journal of Obstetrics & Gynecology, 1976, 126, 987-992.

8. Moos, R. H. Psychological aspects of oral contraceptives. Archives of General Psychiatry, 1968, 19, 87-94.
9. Moos, R. H. Assessment of psychological concomitants of oral contraceptives. In H. A. Salhanik, et al. (Eds.), Metabolic effects of gonadal hormones and contraceptive steroids. New York: Plenum Press, 1969.
10. Oakes, M. R. Pills, periods, and personality (Doctoral dissertation, University of Michigan, 1970). Dissertation Abstracts International, 1971, 31, 7577B. (University Microfilms No. 71-15523)
11. Paige, K. E. The effects of oral contraceptives on affective fluctuations associated with the menstrual cycle (Doctoral dissertation, University of Michigan, 1969). Dissertation Abstracts International, 1970, 31, 2963B. (University Microfilms No. 70-21750)
12. Paige, K. E. Effects of oral contraceptives on affective fluctuations associated with the menstrual cycle. Psychosomatic Medicine, 1971, 33, 515-537.
13. Skinner, S. L., Lumbers, E. R., & Symonds, E. M. Alteration by oral contraceptives of normal menstrual changes in plasma renin activity, concentration and substrate. Clinical Science, 1969, 36, 67-76.
14. Udrey, J. R., Morris, N. M., & Waller, L. Effect of contraceptive pills on sexual activity in the luteal phase of the human menstrual cycle. Archives of Sexual Behavior, 1973, 2, 205-214.
15. Wuttke, W., Arnold, P., Becker, D., Creutzfeldt, O., Langenstein, S., & Tirsch, W. Circulating hormones, EEG, and performance in psychological tests of women with and without oral contraceptives. Psychoneuroendocrinology, 1975, 1, 141-152.

#### N. SOCIAL TABOOS

1. Crabbe, J. L. Menstruation as stigma (Doctoral dissertation, University of Colorado, 1975). Dissertation Abstracts International, 1976, 36, 4148B-4149B. (University Microfilms No. 76-3896).
2. Culture and the curse. Time, February 23, 1976, 58-59.
3. Ernster, V. L. American menstrual expressions. Sex Roles, 1975, 1, 3-13.
4. Goldschmidt, T. The menstrual taboo and women's psychology. Journal of Abnormal and Social Psychology, 1934, 29, 218-221.
5. Miller, W. B., & Smith, P. J. Elimination of the menses: Psychosocial aspects. Journal of Psychiatric Research, 1975, 12, 153-166.

6. Stephens, W. A cross-cultural study of menstrual taboos. Genetic Psychology Monographs, 1961, 64, 385-416.
7. Young, F., & Bacdayan, A. Menstrual taboos and social rigidity. Ethnography, 1965, 4, 225-240.

#### O. MENOPAUSE

1. Flint, M. The menopause: Reward or punishment? Psychosomatics, 1975, 16, 161-163.
2. Greenblatt, R. B., Facog, M. L. C., & Mahesh, V. B. Ovarian and adrenal steroid production in the postmenopausal woman. Obstetrics and Gynecology, 1976, 47, 383-387.
3. Vermeulen, A. The hormonal activity of the postmenopausal ovary. Journal of Clinical Endocrinology and Metabolism, 1976, 42, 247-253.

## INDEX OF FIRST AUTHORS

Abplanalp, J. M., 44  
Abramson, M., 49  
Aedo, A., 44  
Aiello, J. R., 36  
Allard, F. A., 16  
Allen, C. N., 6  
Allen, J. G., 34  
Alper, T., 34  
Ammons, R. B., 20  
Anastasi, A., 30  
Anderson, E. I., 54  
Anderson, M., 38  
Annett, M., 16  
Appleby, B. P., 50  
Archer, E. J., 20  
Archer, J., 30  
Arey, L. B., 47  
Argote, L. M., 34  
Aronfreed, J. A., 34  
Asso, D., 51  
Atkinson, C., 36  
Auger, J. A. R., 44  
Bachman, J. C., 20  
Bäcklund, L., 22  
Bäckström, T., 56  
Baer, H. R., 38  
Baisden, A. G., 54  
Baker, M. A., 10  
Bakker, C. B., 58  
Balint, M., 55  
Bardwick, J. M., 38  
Barr-Brown, M., 26  
Barton, D. S., 53  
Beach, F. A., 6  
Beck, A. C., 50  
Bedale, E. M., 56  
Bell, B., 44, 55  
Bell, R. Q., 13  
Belmaker, R. H., 44  
Benedek, T., 55  
Bennett, G. K., 26  
Berlin, C. I., 16  
Bernstein, B. E., 54  
Berry, J. L., 15  
Berry, J. W., 29  
Beumont, P. J., 49  
Bieri, J., 10  
Billings, E. G., 54  
Binkin, M., 39  
Birns, B., 35  
Birtchnell, J., 55

Blitz, B., 14  
 Bock, R. D., 28, 30  
 Bolalek, P. J., 39  
 Borowy, T. D., 16  
 Brannigan, G. G., 34  
 Brekke, B., 25  
 Briggs, G. G., 16  
 Broadbent, C. E., 23  
 Broverman, D. M., 30  
 Brown, C. H., 40  
 Brownfield, M. K., 29  
 Bruce, J., 50  
 Bryden, M. P., 10  
 Buchanan, D. R., 36  
 Buchsbaum, M. S., 15  
 Burg, A., 10  
 Burghardt, N. R., 34  
 Burke, R. J., 26  
 Burse, R. L., 13  
 Bush, D. F., 29  
 Buxton, C. E., 20  
 Buxton, C. L., 48  
 Buzzelli, B., 51  
 Cameron, R. G., 56  
 Carey, G. L., 26  
 Cargille, C. M., 44  
 Carlson, E., 7  
 Carlson, V. R., 24  
 Carr, B. M., 16  
 Carron, M. C., 48  
 Cattell, R. B., 26  
 Chaffin, D. B., 22  
 Chatteraj, S. C., 44  
 Chern, M. -F. M., 47  
 Childs, B., 30  
 Clare, G., 51  
 Clark, W. C., 10, 13  
 Clark, W. W., 6  
 Clum, G. A., 34  
 Cohen, B. D., 16  
 Cohen, D., 28  
 Cohen, D. B., 56  
 Coles, M. G. H., 24  
 Colquhoun, W. P., 6  
 Coltheart, M., 28  
 Connolly, K., 20  
 Connor, J. M., 28  
 Cook, T. W., 20  
 Coppen, A., 55  
 Corso, J. F., 12  
 Coules, J., 23  
 Crabbe, J. L., 59  
 Creutzfeldt, O. D., 53

Dalton, K., 56, 57  
Daly, R. F., 20  
Damon, A., 47  
Dan, A. J., 7  
Daniels, J., 40  
Darden, E., 20  
Davenport, W. G., 23  
Davidson, R. J., 15, 16  
Davies, D. R., 23  
Davol, S. H., 20  
Dawson, J. L. M., 28  
Day, D. R., 35  
Deaux, K., 34, 35  
DeMarchi, G. W., 51  
DeMarchi, W. G., 44  
Diamond, M., 51  
Diamond, S. B., 55  
Diespecker, D. D., 51  
Dimond, S. J., 16  
Dmowski, W. P., 44  
Doring, G. K., 51  
Dorshav, N. K., 50  
Doty, R. L., 51, 57  
Drinkwater, B. L., 26, 40  
Dubois, E. F., 13  
Ducharme, R. E., 39  
Durber, S. M., 58  
Durnin, J. V. G. A., 22  
Dusser de Barenne, D., 53  
Dweck, C. S., 35  
Dwyer, J. H., 16  
Dyer, K. F., 35  
Eckert, H. M., 20  
Edwards, D. J. A., 36  
Eliot, J., 28  
Elliott, C. D., 12  
Engel, P., 24  
Engle, E. T., 47  
Ernest, C. H., 26  
Ernster, V. L., 59  
Evans, H. I., 34  
Eysenck, H. J., 10  
Fairweather, H., 25  
Farber, S. M., 38  
Favreau, O. E., 7  
Feij, J. A., 34  
Fergenson, P. E., 13  
Fisher, S., 51  
Fletcher, J. F., 12  
Flint, M., 60  
Fluhmann, C. F., 47  
Folkard, S., 14  
Fox, R. H., 13



Franchimont, P., 44  
 Frank, R. T., 50  
 Frankenhaeuser, M., 18  
 Freedman, B. E., 20  
 Freire-Maia, A., 31  
 Friedman, R. C., 6  
 Friedrich, D., 26  
 Fulton, C. D., 24  
 Fuss, Dr., 38  
 Gafafer, W. M., 38  
 Gainer, W. L., 25  
 Garai, J. E., 6  
 Garron, D. C., 31  
 Gautray, J. P., 53  
 Geer, J. H., 24  
 Geiringer, E. R., 28  
 Gentry, W. D., 18  
 Glanville, E. V., 51  
 Glass, R., 58  
 Glick, I. D., 58  
 Goldberg, P., 38  
 Golden, C. J., 27  
 Goldschmidt, T., 59  
 Goldstone, S., 24  
 Golub, L. J., 49  
 Golub, S., 50  
 Goodenough, D. R., 29  
 Gottschalk, L. A., 55  
 Götz, K. O., 10  
 Gough, H. G., 49  
 Graham, L. A., 18  
 Gray, J. A., 31  
 Gray, M. J., 44  
 Greenberg, R. P., 24  
 Greenblatt, R. B., 60  
 Greenglass, E. R., 38  
 Griffith, M., 55  
 Gunn, D. L., 47  
 Gutin, B., 20  
 Guttman, R., 31  
 Hagan, R. E., 20  
 Hagen, R. L., 35  
 Hain, J. D., 49  
 Hall, R. J., 13  
 Haman, J. O., 47  
 Hamburg, D. A., 49, 57  
 Hannay, H. J., 16  
 Harley, J. P., 10  
 Harris, D. V., 6, 22, 40, 57  
 Harris, G. W., 6  
 Harris, M. B., 36  
 Harris, S. L., 7  
 Harrison, J. B., 7  
 Hartlage, L. C., 31

Hartman, C. G., 48  
Hartmann, E., 57  
Haslag, W. M., 13  
Hayes, R. W., 29  
Heim, A. W., 16  
Henderson, I. D., 48  
Herren, R. Y., 52  
Hersey, R. B., 6  
Herzberg, B., 58  
Hetherington, M., 25  
Ho, M. A., 57  
Hobson, J. R., 25  
Hodgkins, J., 24  
Hoffman, L. R., 26  
Hosler, W. W., 22  
Hudgens, G. A., 7  
Hudgins, A. P., 49  
Hull, F. M., 12  
Humphreys, L. G., 25  
Hunsicker, P. A., 22  
Husband, R. W., 20  
Hutt, C., 6, 31  
Ikai, M., 22  
Imam, A., 29  
Immergluck, L., 29  
Iusem, R., 48  
Ivey, M. E., 55  
Jacobson, M. B., 35  
Jänne, O., 44  
Janowsky, D. S., 50, 55  
Jenni, D. A., 22  
Jenni, M. A., 22  
Johansson, E. D. B., 45  
Johnson, B. L., 22  
Jordan, V. C., 45  
Jørgensen, K., 22  
Judd, H. L., 45  
Kahn, R. J., 52  
Kane, C., 40  
Kane, F. J., Jr., 58  
Kanter, R. M., 35  
Karnovsky, A. R., 28  
Kassab, S. J., 22  
Kataoka, J., 23  
Kaufman, P. K., 16  
Keenan, K. M., 39  
Kelley, H. P., 26  
Kensho, D. R., 14, 52  
Kesel, N., 49  
Kidd, T. R., 35  
Kimmel, H. D., 15  
Kimura, D., 16, 17  
King, D. J., 26

Kinzer, N. S., 39  
Knestrick, J. L., 26  
Knott, J. R., 18  
Knox, C., 17  
Koelega, H. S., 10, 12  
Koffman, G., 29  
Kogan, N., 26  
Komnenich, P., 57  
Kopacz, F. M., II, 15  
Kopell, B. S., 53  
Kopra, L. L., 12  
Korn, J. H., 14  
Köster, E. P., 52  
Krauss, I. K., 21  
Krishna, K. P., 11  
Kroemer, K. H. E., 22  
Kuechenmeister, C. A., 11  
Kumar, P., 12  
Kuscsik, N., 40  
Lake, D. A., 17  
Lamb, W. M., 50  
Lamprecht, F., 45  
Landers, A. D., 55  
Lando, H. A., 36  
Lang, T., 6  
Langford, N., 14  
Lansdell, H., 17  
Laosa, L. M., 35  
Larwood, L., 39  
Laubach, L. L., 22  
Lederman, M., 54  
Leeper, R. C., 40  
Lehrke, R., 31  
Leibst, M. D., 39  
Leiderman, P. H., 15  
LeMagnen, J., 12, 52  
Leon, B. N., 14  
Less, M., 38  
Lester, D., 23  
Levitt, E. E., 55  
Liberson, C. W., 18  
Lichtenstein, J. H., 11  
Lindauer, M. S., 28  
Lindsley, D. B., 15  
Liskey, N. E., 57  
Little, B. C., 55  
Little, M. J., 40  
Lloyd, B., 6  
Logothetis, J., 57  
Loucks, J., 54  
Lough, O. M., 54, 55

MacArthur, R., 29  
 Maccoby, E. E., 6  
 MacKinnon, I. L., 57  
 MacKinnon, P. C. B., 45, 57  
 Mahoney, J., 23  
 Maier, N. R. F., 26  
 Makosky, V. P., 35  
 Margerison, J. H., 53  
 Marinari, K. T., 45  
 Marks, D. F., 28  
 Markum, R. A., 49  
 Marshall, J., 52  
 Martens, R., 21  
 Masica, D. N., 31  
 Masmajian, M. A., 52  
 Mathur, V. K., 24  
 Matsumoto, S., 47  
 Matteson, M. T., 38  
 May, R. R., 56  
 Mayo, P. R., 30  
 McCann, P. H., 23  
 McCarthy, K. A., 28  
 McClintock, M. K., 48  
 McCullough, R. C., 57  
 McEwen, D. D., 39  
 McGee, M. G., 17  
 McGlone, J., 17  
 McGuinness, D., 11, 12, 29  
 McGuire, C., 35  
 McKeever, W. F., 17  
 McKenna, W. B., 56  
 McNeilly, A. S., 45  
 Meixner, C. H., 52  
 Metzger, R. L., 24  
 Michael, R. P., 6, 45  
 Midgely, A. R., Jr., 45  
 Miele, J. A., 25  
 Miller, W. B., 59  
 Mills, T. M., 58  
 Milner, B., 17  
 Milton, G. A., 27  
 Misiak, H., 11  
 Moghissi, K. S., 45  
 Molfese, D. L., 17  
 Money, J., 31  
 Moos, R. H., 49, 59  
 Morell, J. A., 30  
 Morris, B. B., 30  
 Morris, N. M., 54  
 Murray, D. J., 14  
 Mussen, P. H., 6  
 Myrsten, A.-L., 18  
 Naditch, S. F., 30  
 Nance, W. E., 31

Nash, S. C., 35  
 Neill, J. D., 45  
 Nerlove, S. B., 28  
 Nielsen, J. M., 35  
 Nieva, V. F., 38  
 Noble, C. E., 18, 21  
 Nordgren, B., 40  
 Norman, R. D., 25  
 Notermans, S. L. H., 14  
 Nuttall, J. R., 34  
 Oakes, M. R., 59  
 Ong, J., 21  
 Orban, B., 48  
 Ounsted, C., 6  
 Paige, K. E., 19, 59  
 Pangborn, R. M., 12  
 Papanicolaou, G. N., 48  
 Papic, M., 48  
 Parlee, M. B., 30, 31, 49, 50  
 Passingham, R. E., 31  
 Patkai, P., 45  
 Patty, R. A., 56  
 Peay, M. Y., 8  
 Pennington, V. M., 51  
 Percival, E., 57  
 Peretti, P., 27  
 Perney, V. H., 30  
 Peskin, H., 47  
 Petrovich, D. V., 14  
 Pierson, W. R., 54  
 Pitblado, C., 30  
 Pitot, M., 53  
 Pressey, A. W., 29  
 Preston, F. S., 57  
 Priest, R. F., 27  
 Punnonen, R., 45  
 Purohit, A. P., 15  
 Ray, W. J., 17  
 Rayner, K., 11  
 Reardon, P., 7  
 Reeves, B. D., 51  
 Reich, M., 46  
 Renzi, N. B., 30  
 Revell, J. E., 39  
 Reynolds, E., 56  
 Reynolds, R. E., 11  
 Ricci, B., 23  
 Richman, C. L., 56  
 Rikli, R., 23  
 Roberts, J., 11  
 Rodbard, S., 38  
 Rodin, J., 56  
 Rohles, F. H., Jr., 14

Rohner, R. P., 36  
Roll, S., 27  
Ronchi, L., 11  
Rosenthal, S. F., 27  
Ross, G. T., 46  
Ruble, D. N., 51  
Russell, M. J., 13, 48  
Ryan, T. T., 21  
Sachar, E. J., 7  
Sakala, M. K., 27  
Salhanick, H. A., 46  
Salvatierra, V., 48  
Sampson, G. A., 49  
Samuels, F., 25  
Sarason, I. G., 25  
Satinder, K. P., 7, 29, 52  
Schenkenberg, T., 15  
Schneider, R. A., 13  
Schneider, G. R., 25  
Schonberg, W. B., 56  
Schwabacher, S., 7  
Scott, A. C., 40  
Seagull, E. A. W., 51  
Segal, D. R., 39  
Semczuk, B., 52  
Seward, G. H., 44, 57  
Seward, J. P., 52  
Shainess, N., 56  
Shealy, J. E., 21  
Sheldrake, P., 50, 58  
Shephard, A. H., 21  
Sherman, J. A., 28  
Shields, S. A., 38  
Shorr, E., 48  
Silbergeld, S., 50  
Silverman, E. -M., 58  
Silverman, J., 10, 23  
Simon, J. R., 21  
Singer, G., 31  
Skinner, S. L., 59  
Smith, A. J., 58  
Snodgrass, J. M., 53  
Snook, S. H., 40  
Soltan, H. C., 13  
Somerville, B. W., 46  
Sommer, B., 54  
Sommer, R., 26  
Soto, D. H., 38  
Southam, A. L., 46  
Sowton, S. C. M., 54  
Spence, K. W., 18  
Speroff, L., 47  
Spottswood, P. J., 23  
Stafford, R. E., 31

Staples, R., 11  
 Stenn, P. G., 15  
 Stephens, W., 60  
 Stevens, R. R., 14  
 Stocker, J. M., 54  
 Strassberg, D. S., 14  
 Strausfeld, K., 46  
 Sutherland, H., 51  
 Svanborg, A., 46  
 Svinicki, J. G., 30  
 Sweeney, E. J., 27  
 Taylor, D. C., 17  
 Tedford, W. H., 52  
 Thompson, C. T., 47  
 Timmons, B. A., 12  
 Tobias, J. V., 52  
 Tolor, A., 34  
 Torg, B. G., 40  
 Udrey, J. R., 58, 59  
 VandeWiele, R. L., 46  
 Van Duyne, H. J., 17  
 Venstrom, D., 13  
 Vermeulen, A., 46, 60  
 Vierling, J. S., 52  
 Vitola, B. M., 25, 39  
 Vogel, W., 53  
 Waag, W. L., 23  
 Waber, D. P., 32  
 Wada, J. A., 17  
 Walters, C., 10  
 Wardle, M. G., 38  
 Watson, P. E., 50  
 Weinmann, J., 48  
 Weltman, G., 11  
 Wetzel, R. D., 56  
 Wickham, M., 54  
 Widholm, O., 47  
 Wiener, J. S., 51  
 Wilcoxon, L. A., 50  
 Wilkinson, R. T., 18  
 Williams, J. M., 11  
 Wilmore, J. H., 40, 41  
 Wineman, E. W., 46  
 Winer, B. M., 46  
 Witelson, S. F., 17  
 Witkin, H. A., 30  
 Witt, V. H. J., 48  
 Wittig, M. A., 32  
 Wokoun, W., 23  
 Wolf, V. C., 11  
 Wolff, P. H., 21  
 Wong, S., 52  
 Woodrow, K. M., 14

Woolley, H. T., 7  
Wright, P., 53  
Wu, C. -H., 46  
Wuttke, W., 59  
Wynn, V. T., 53  
Yen, S. S. C., 46  
Yen, W. M., 32  
Young, F., 60  
Young, M. L., 27  
Zaner, E. R., 12  
Zanna, M. P., 35  
Zimmerman, E., 58  
Ziskin, D. E., 48